

Programmed by

GREAT LAKES DIVISION

INLAND WATERS BRANCH

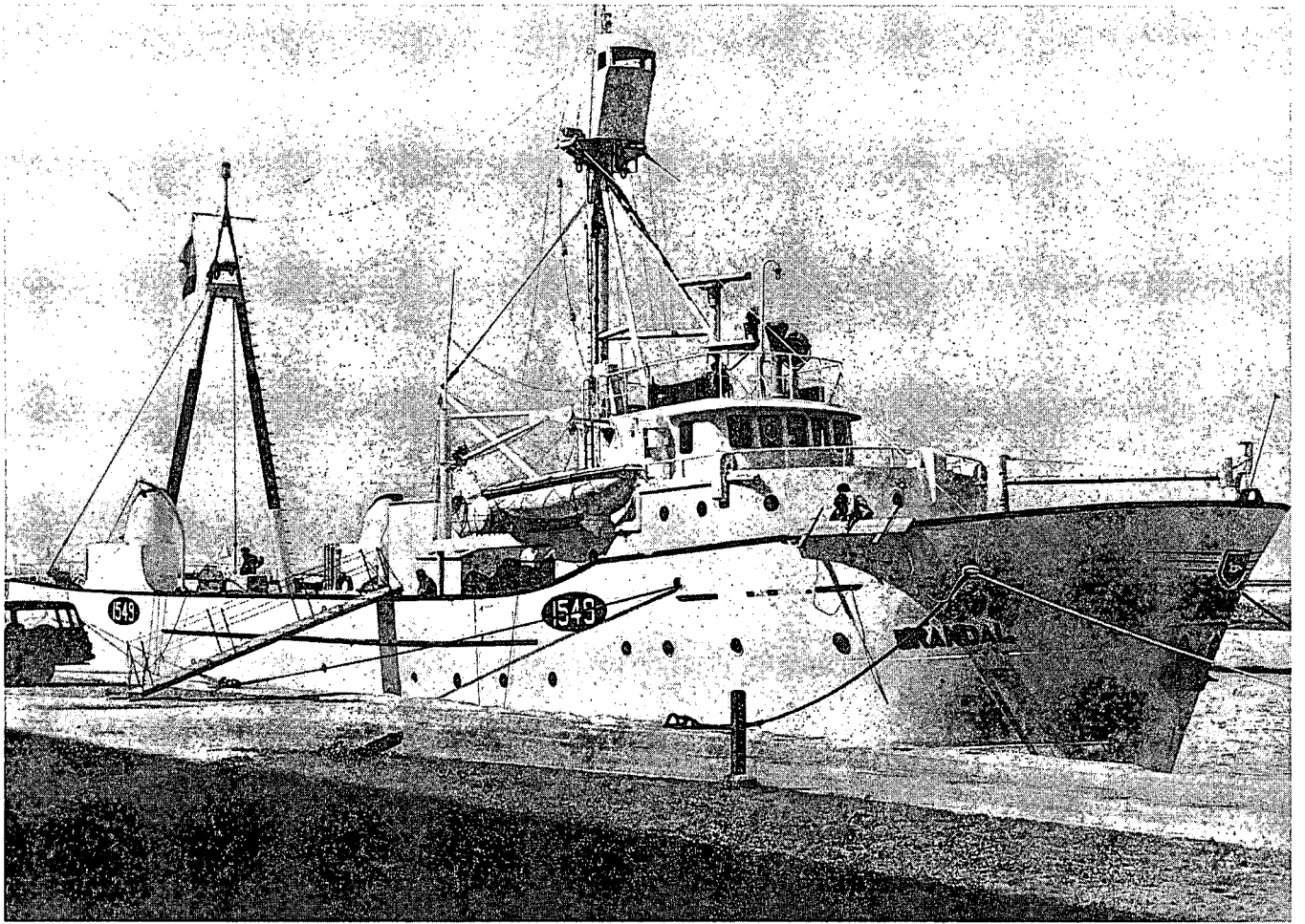
DEPARTMENT of ENERGY, MINES & RESOURCES

and

PUBLIC HEALTH ENGINEERING DIVISION

DEPARTMENT of NATIONAL HEALTH & WELFARE

CANADA



M.V. "Brandal"



LIMNOLOGICAL DATA REPORT NO. 3

LAKE ERIE

CRUISE 67 - 109, August 21 - 31

CRUISE 67 - 111, September 11 - 21

CRUISE 67 - 113, October 2 - 9

CRUISE 67 - 115, October 23 - 29

1967

**CANADA CENTRE FOR INLAND WATERS
BURLINGTON, ONTARIO**

FOREWORD

This report contains limnological data gathered for research and monitoring purposes, primarily to provide data required in connection with the IJC reference on pollution of Lakes Erie and Ontario.

The agencies involved were:

Department of Energy, Mines and Resources
Department of National Health and Welfare

The joint reference of the Governments of Canada and the United States to the International Joint Commission was for information on the following questions:

- (1) Are the waters of Lake Erie, Lake Ontario and the International Section of the St. Lawrence River being polluted on either side of the boundary to an extent which is causing or is likely to cause injury to health or property on the other side of the boundary?
- (2) If the foregoing question is answered in the affirmative, to what extent, by what causes, and in what localities is such pollution taking place?
- (3) If the Commission should find that pollution of the character just referred to is taking place, what remedial measures would, in its judgement, be most practicable from the economic, sanitary and other points of view and what would be the probable cost thereof?

These data have been made available to International Joint Commission agencies, federal and provincial, operating under the respective Boards: The International Lake Erie Water Pollution Board and the International Lake Ontario - St. Lawrence River Water Pollution Board.

In view of their interest to limnological research workers who are not formally charged with studies on behalf of the International Joint Commission, these data are distributed widely in this report. Because of difficulties in interpretation, anyone using these data in the preparation of a paper or report which draws conclusions pertaining to the three questions posed above, is requested by the IJC Pollution Reference Boards to discuss the data interpretation with the agencies concerned before publishing the report or paper. Such discussion can be arranged through the Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario.

In all other respects, the data are free to be used for scientific research and studies and should be acknowledged in accordance with the usual scientific practice.

INTRODUCTION

This report is one of a series listing chemical, bacteriological and physical data for waters of Lake Erie, observed by Government of Canada agencies. Ten cruises of Lake Erie were carried out between May 30 and October 30, 1967.

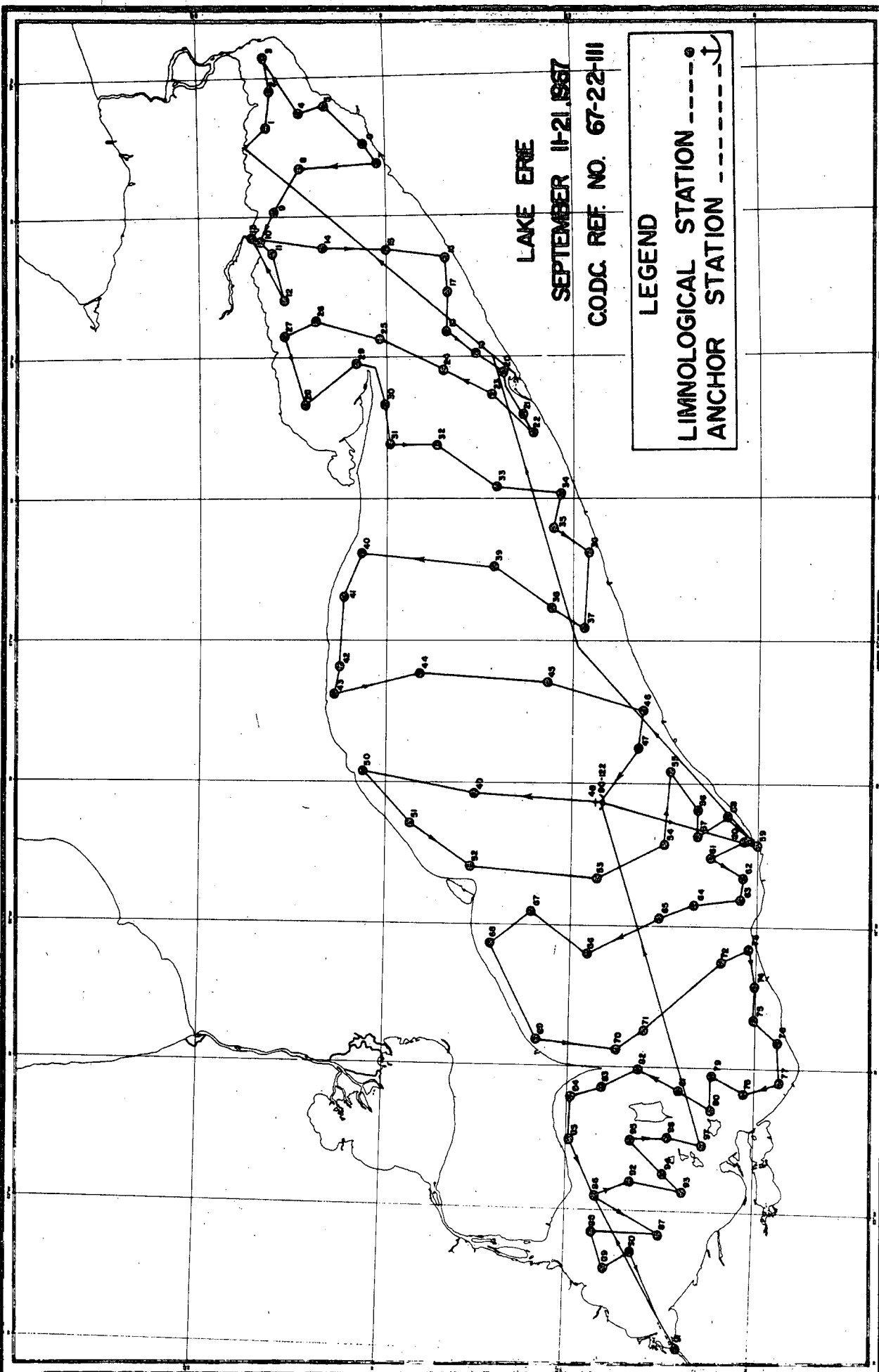
The 1967 surveys were carried out by the Great Lakes Division (Inland Waters Branch) and the Canadian Hydrographic Service (Marine Sciences Branch), both of which are Branches of the Department of Energy, Mines and Resources, and by the Public Health Engineering Division of the Department of National Health and Welfare. Staff from the three agencies carried out the work aboard the 140-foot stern trawler "Brandal", chartered by the Department of Energy, Mines and Resources.

Water-quality data gathered during ten monitor cruises in 1967 are contained in the present series. Not reported on are several cruises related to Physical, Geological and Seismic Surveys. Supplementary bathythermograph data and weather data are available on request from the Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario.

The Canadian Government's program developed in response to a request directed to the International Joint Commission by the Governments of Canada and the United States, that information relating to pollution of Lake Ontario, Lake Erie, and the international section of the St. Lawrence River be gathered. Preliminary listings of the data have already been made available to agencies preparing a report for the International Joint Commission.

The bacteriological data have already been published in Manuscript Report No. 67-19 of the Public Health Engineering Division, Department of National Health and Welfare. These data are again published in the present series of reports to facilitate comparison with the chemical and physical data.

Accompanying diagrams show the geographical locations of the observations listed in this data record, together with the vessel's track and the locations of bathythermograph lowerings.



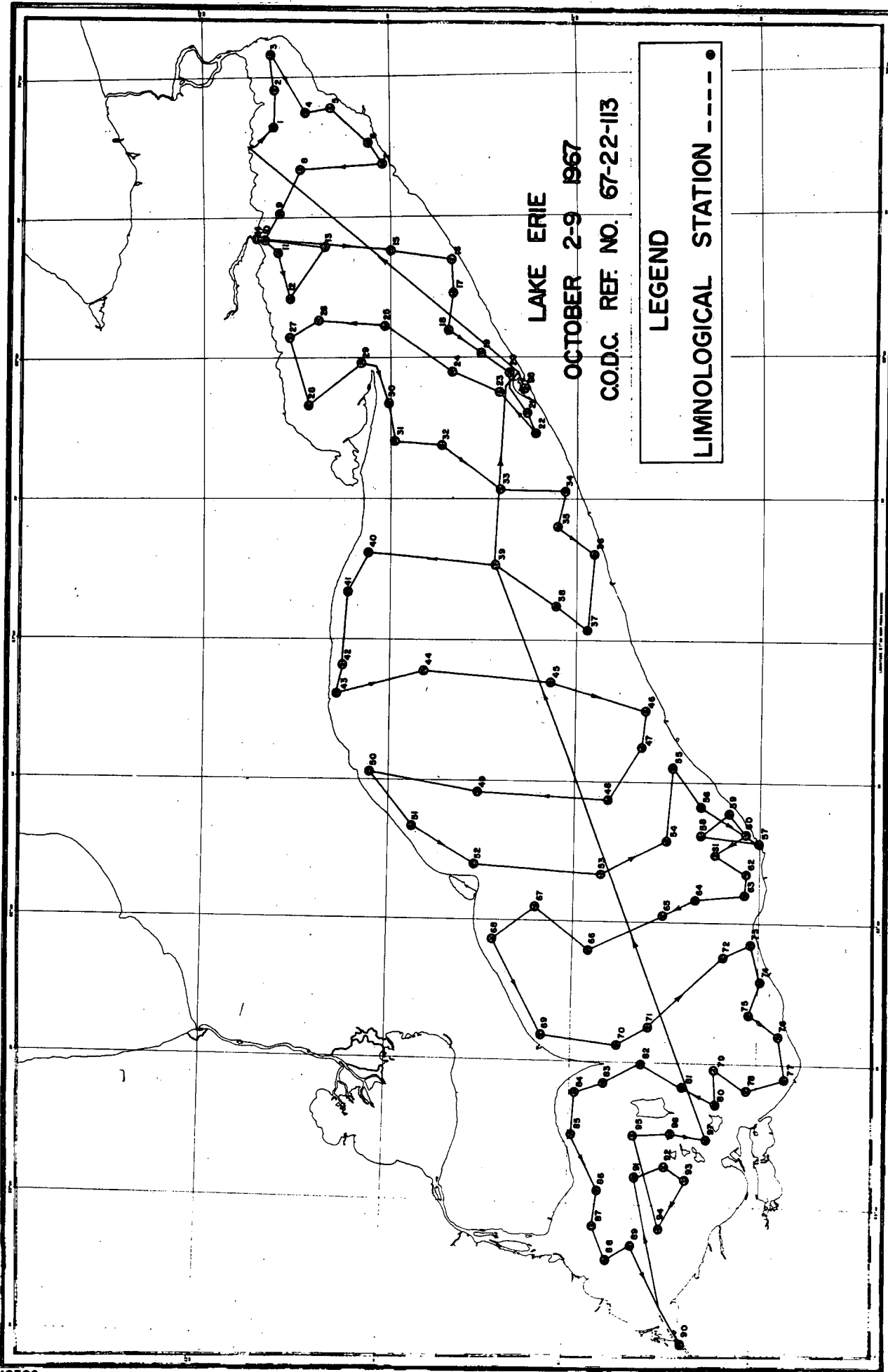
LAKE ERIE

SEPTEMBER 11-21, 1967

C.O.D.C. REF. NO. 67-22-III

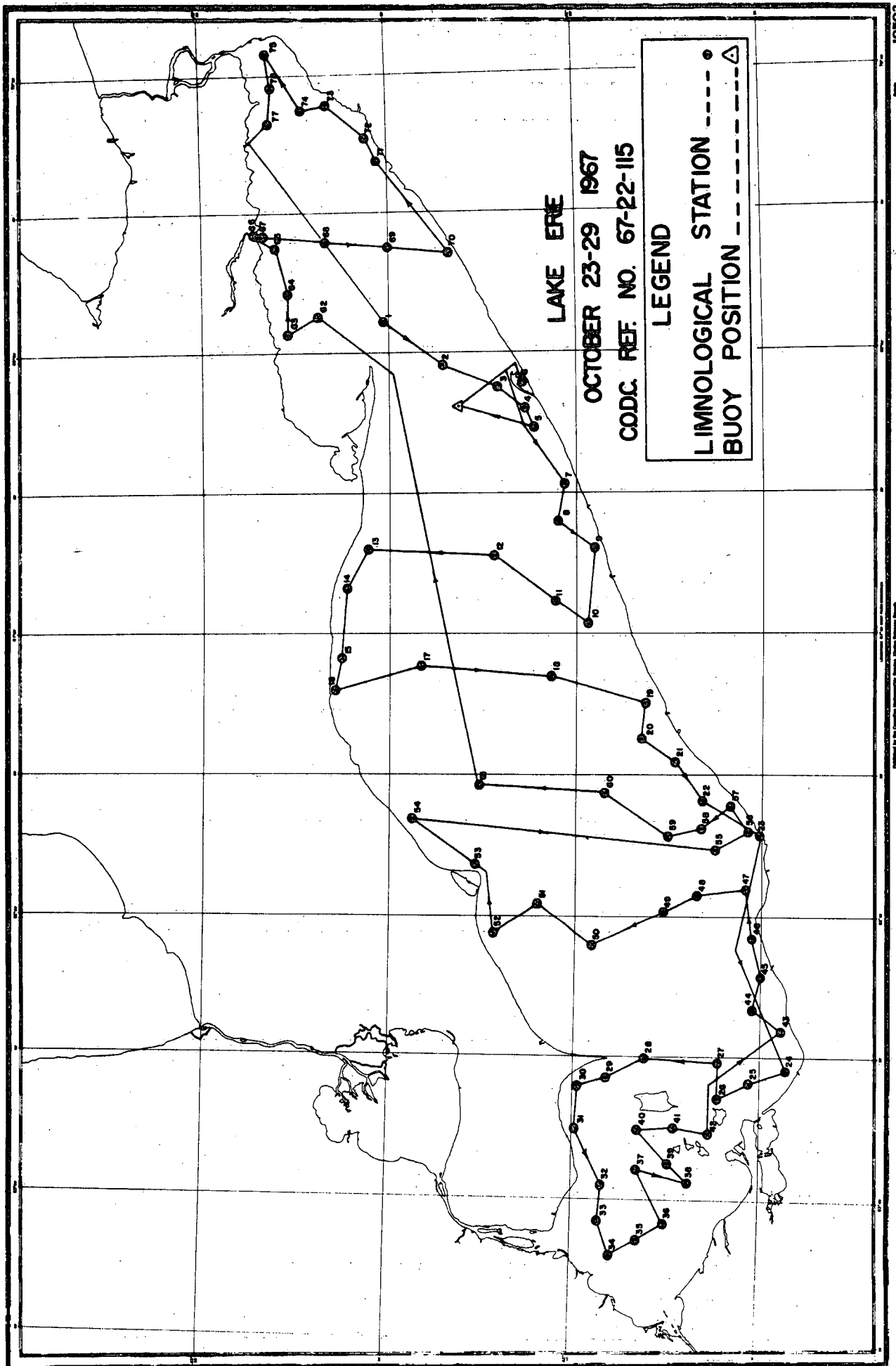
LEGEND

LIMNOLOGICAL STATION - - - - -
 ANCHOR STATION - - - - - ⚓



LAKE ERIE
 OCTOBER 2-9 1967
 C.O.D.C. REF. NO. 67-22-113

LEGEND
 LIMNOLOGICAL STATION - - - - - ●



Summary of the Cruises and Data listed in Data Reports Nos. 1, 2 and 3.

Data Report No.	1		
Cruise No.	67-101	67-102	67-103
Dates (1967)	May 30 June 7	June 12 June 18	June 19 June 29
Cruise Type	Monitor	Monitor	Monitor
Lake	Erie	Erie	Erie
Vessel	Brandal	Brandal	Brandal
No. of Stations	153	123	167
No. of BT Slides	8	36	10
Station Data:			
Date/Time	X	X	X
Sounding	X	X	X
BT Slide No.	X	X	X
Sample Depth	X	X	X
Secchi Depth	X	X	X
Colour - Hazen Scale	X		X
Temperature	X	X	X
Turbidity	X	X	X
Specific Conductance	X	X	X
Residue, filtrable	X		X
pH 25°C	X	X	X
Alkalinity, total (titrimetric)	X		X
Alkalinity, total (colorimetric)	X		X
Biochemical Oxygen Demand (Winkler)	X	X	
Oxygen, dissolved (Winkler)	X	X	X
Phosphate, reactive			
Nitrate nitrogen, NF			X
Nitrite nitrogen, NF			X
Nitrate nitrite nitrogen, NF		X	
Sulphate, NF	X		X
Chloride, NF	X		X
Silica, reactive	X	X	X
Hardness, total	X		X
Cadmium, NF	X		X
Calcium, NF atomic absorption	X		X
Chromium, NF	X		X
Cobalt, NF	X		X
Copper, NF	X		X
Iron, NF	X		X
Lead, NF	X		X
Lithium, NF	X		X
Magnesium, NF	X		X
Manganese, NF	X		X
Nickel, NF	X		X
Potassium, NF photometric	X		X
Sodium, NF photometric	X		X
Strontium, NF atomic absorption	X		X
Zinc, NF	X		X
MF Coliforms	X		X
MF fecal coliform			X
MF fecal streptococci	X		X
Standard plate count at 20°C	X		X
Standard plate count at 35°C	X		X

NF - Non filtered.

Description of the Data Record

Information in the headings for each station:

1. C-REF-No.	5. LAT.	7. YEAR	11. No. DEPTHS
2. CONS. No.	6. LON.	8. MONTH	12. SOUNDING
3. COUNTRY		9. DAY	13. BT SLIDE No.
4. INSTITUTE		10. TIME	

Explanations:

- (1) Cruise number: the 1967 cruises are numbered in the series from 101 to 115, the first digit (1) having been assigned to all Lake Erie cruises.
- (2) Consecutive station number: the stations within each cruise are numbered in chronological order.
- (4) Institute: For filing purposes, the institute code was 22 (Inland Waters Branch, Department of Energy, Mines and Resources).
- (5) and (6) indicate the latitude and longitude of the vessel, in degrees, minutes and seconds, at the time of the observations.
- (7), (8) and (9) indicate the date of the observations according to Greenwich Mean Time.
- (10) Indicates the messenger time in hours and minutes (Greenwich Mean Time) for the first bottle cast at the station. The hours of each day are numbered from 00 to 23.
- (11) The number of depths at which observations were made. This should correspond to the number of depths actually listed. The count is listed to reveal omissions due to the loss of punch-cards.
- (12) The sounding is listed in meters, to the nearest tenth of a meter.
- (13) Indicates the bathythermograph slide number corresponding to the particular station. The slides are numbered consecutively within each cruise.

EXPLANATION OF THE DATA LISTING FOR EACH STATION

Parameter Name	Abbreviation (column heading)	Units used in the Data Reports	No. of Decimals printed	Star System Code
Sample Depth	DEPTH	METERS	1	001
Secchi Depth	SECCHI	METERS	1	030
Hazen	HAZEN	Hazen-Seale	0	032
Temperature	TEMP.	°C	2	100
Turbidity	TURB.	Turb. Units	1	123
Specific Conductance at 25°C	SP. COND	Micromhos	0	160
Residue, filtrable	F. RES	mg/L	1	201
pH 25°C	pH 25	pH units	3	215
Alkalinity, total (titrimetric)	TT ALK	mg CaCO ₃ /L	1	219
Alkalinity, total (colorimetric)	TC ALK	mg CaCO ₃ /L	1	220
Biochemical Oxygen Demand (Winkler)	BOD W	mg O ₂ /L	1	239
Oxygen, dissolved (Winkler)	O2 W	mg O ₂ /L	2	245
Phosphate, reactive	R PO4	mg PO ₄ /L	3	262
Nitrate nitrogen, NF	NO3NF	mg N/L	3	271
Nitrite nitrogen, NF	NO2NF	mg N/L	3	273
Nitrate nitrite nitrogen, NF	T NO3	mg N/L	3	275
Sulphate, NF	S SO4	mg SO ₄ /L	1	280
Chloride, NF	CL	mg Cl/L	1	290
Silica, reactive	R SIO2	mg SIO ₂ /L	3	295
Hardness, total	HARD	mg CaCO ₃ /L	1	300
Cadmium, NF	CD NF	mg metal/L	3	320
Calcium, NF atomic absorption	CA NFA	mg metal/L	3	324
Chromium, NF	CR NF	mg metal/L	3	328
Cobalt, NF	CO NF	mg metal/L	3	332
Copper, NF	CU NF	mg metal/L	3	336
Iron, NF	FE NF	mg metal/L	3	340
Lead, NF	PB NF	mg metal/L	3	346
Lithium, NF	LI NF	mg metal/L	3	350
Magnesium, NF	MG NF	mg metal/L	3	354
Manganese, NF	MN NF	mg metal/L	3	358
Nickel, NF	NI NF	mg metal/L	3	366
Potassium, NF photometric	K NFS	mg metal/L	3	372
Sodium, NF photometric	NA NFS	mg metal/L	3	388
Strontium, NF atomic absorption	SR NFA	mg metal/L	3	390
Zinc, NF	ZN NF	mg metal/L	3	398
MF Coliforms	MF COL	col/100 ml	*	700
MF fecal coliform	MF FCO	col/100 ml	*	703
MF fecal streptococci	MF STR	col/100 ml	*	706
Standard plate count at 20°C	SPC 20	col/ml	*	720
Standard plate count at 35°C	SPC 35	col/ml	*	721

* Exponential notation. NF - Non filtered.

Note: The four bacteriological parameters are listed in exponential form:

$$130E02 = 1.30 \times 10^2 = 130.$$

$$100E00 = 1.00 \times 10^0 = 1.$$

$$000E00 = 0.00 \times 10^0 = 0.$$

Note: For some parameters, the analytical methods listed in the Star System Manual (REF 12, pp.23-33) are not the methods used for Data Reports.

Methods of Sampling and Measurement

Water sampling was carried out on the port side of the vessel, amidships, where a davit and a "chains" platform were installed. A small wooden deckhouse provided shelter for reading the thermometers and for transferring water from the primary sampling devices to small bottles which were taken to the shipboard laboratory. The sampling procedure together with photographs of the equipment are published in Manuscript Report No. 67-1 of the Public Health Division, Department of National Health and Welfare.

Samples were collected at standard depths of 1, 4, 7, 10, 13, 16, 19, 22, 28, 31, 37, 43, 49, 55 and 61 meters, where the depth of water permitted. The water sampling devices were metal Knudsen bottles with a capacity of 1.2 liters, and polyvinylchloride Van Dorn bottles with capacities of 2 and 3 liters. Oceanographic reversing thermometers, and rubber bulbs for bacteriological sampling, were mounted on the Knudsen bottles.

For bacteriological sampling, a sterile deflated pear-shaped rubber bulb was attached to a Knudsen bottle. A brass plug in the opening of the rubber bulb was pulled out by the reversing Knudsen bottle. (REF 14, pp. 88-90).

Position (Latitude and longitude) was determined using radar ranges and bearings on identifiable shoreline features. Occasionally, dead-reckoning had to be used when the vessel was far from shore.

Sounding The depth of water at each station was measured with the ship's echo sounder. Corrections for the transducer depth have been applied.

Secchi depth is the depth of disappearance of a white disc, 30 centimeters in diameter, when it is lowered slowly into the water.

Sample depth The length of wire was measured with a meter wheel using the water surface as the reference level. Wire-angle corrections were applied whenever depths were one meter or more.

Temperature Oceanographic reversing thermometers manufactured by Yoshino Keiko Co. of Japan were lowered in series to all the required depths, and were turned over after five minutes. Later, each thermometer was read twice in the vessel's deckhouse. Scale corrections and thermal-expansion corrections were applied to the readings. There were usually two thermometers on each Knudsen bottle. A single mean temperature value is reported in this final data record, but the individual readings are kept on file at the Canada Centre for Inland Waters. The difference between readings of paired thermometers was usually less than 0.05°C. (U.S. Hydrographic Office 1955).

Additional temperature measurements were made with bathythermographs, and with a thermistor thermometer towed at a depth of one meter while the ship was underway. The BT and thermistor data are available on request from the Canada Centre for Inland Waters.

Turbidity Hach Turbidimeter, Model 1860 (REF 13).

Specific conductance 25°C Radiometer Conductivity Meter Type CDM2 (REFS 2, 23).

pH, 25°C Corning pH meter, Model 10 (REFS 2, 9).

Titrimetric alkalinity Potentiometric Titration (REF 29).

Colorimetric alkalinity was measured using an AutoAnalyzer colorimetric instrument system. Samples were mixed with a buffered acidic methyl orange indicator solution. The final color was measured at 550 millimicrons. Standard solutions contained sodium bicarbonate. (REF 15, pp. 34-36). The unit for alkalinity in this report is mg CaCO₃/liter. The constituents reacting with the hydrogen ion during the alkalinity measurement were assumed to be CO₃⁻², and an equivalent amount of Ca⁺⁺ was arbitrarily assumed to be present. Actually most of the alkalinity in Great Lakes waters is HCO₃. Conversion factor for alkalinity: 1 mg CaCO₃/liter = 1.219 mg HCO₃/liter.

B.O.D. (Biochemical oxygen demand) One-liter samples were stored for a few hours so that they attained laboratory temperature. Then air was bubbled through each sample to produce oxygen concentrations near the equilibrium value for that temperature. Two 300-ml B.O.D. bottles were filled from each sample by means of a siphon. Dissolved oxygen in the sample of one of the B.O.D. bottles was measured immediately by the Winkler method. The sample in the other bottle was stored in the dark at 20°C, and after 5 days, its final oxygen concentration was measured. The "B.O.D." was the difference between the initial and final oxygen concentrations. A water seal was maintained around the top of each bottle during incubation. The dilution and seeding procedures of the American Public Health Association (REF 2, p. 415), were not included.

Dissolved oxygen was measured using the Winkler iodometric method. Azide was not used. (REF 15, pp. 67-78).

Reactive phosphate Manual extraction, Beckman Model B spectrophotometer (REFS 4, 19, 22, 25).

Nitrate + nitrite NF AutoAnalyzer, colorimetric cadmium reduction (REFS 5, 6).

Nitrite NF AutoAnalyzer, colorimetric (REFS 5, 6).

Sulphate, NF Titrimetric, barium chloride, Thorin indicator (REFS 3, 10).

Chloride NF AutoAnalyzer, colorimetric, mercury thiocyanate (REF 16).

Reactive silica AutoAnalyzer, colorimetric heteropoly blue (REFS 2, 28).

Total hardness Computed from calcium and magnesium determinations (REF 2).

Cadmium NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Calcium NF Atomic absorption spectrophotometry (REF 21).

Chromium NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

NF - Non filtered.

Cobalt NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Copper NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Iron NF AutoAnalyzer colorimetric (REFS 8, 26) Titration method.

Lead NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Lithium NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Magnesium NF Atomic absorption spectrophotometry (REF 21).

Manganese NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Nickel NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Potassium NF AutoAnalyzer, flame emission photometry (REF 27).

Sodium NF AutoAnalyzer, flame emission photometry (REF 27).

Strontium NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

Zinc NF Atomic absorption spectrophotometry (REFS 1, 7, 18, 21, 24, 30).

BACTERIOLOGICAL PARAMETERS

Storage conditions for bacteriological samples The analyses began within one or two hours after sampling, except for samples collected between midnight and 6.30 a.m. The night samples were stored at temperatures varying between 4 and 7°C for a maximum of 8 hours before their analyses commenced.

Coliform density determinations were obtained by membrane filtration techniques using Bacto-m-Endo MF Broth. Membranes were incubated at 35°C for 20 ± 2 hours in an atmosphere of saturated humidity. Coliform densities were recorded in terms of coliforms per 100 ml of water sample (REF 2, p. 615).

Fecal coliform density determinations were obtained by membrane filtration techniques using Bacto-m FC Broth. Membranes were incubated in a 44.5°C waterbath for 24 ± 2 hours. Fecal coliform densities were recorded in terms of fecal coliform per 100 ml of water sample (REF 11).

NF - Non filtered.

Fecal streptococcus density determinations were obtained by membrane filtration techniques using Bacto-m Enterococcus Agar. Membranes were incubated at 35°C for 48 hours in an atmosphere of saturated humidity. Counts were calculated and recorded in terms of fecal streptococci (maroon and pink colonies) per 100 ml of water (REF 2, p. 619).

Standard plate counts The American Public Health Association Standard Methods (REF 2, p. 592), Standard Plate Count procedure was used for the estimation of total bacterial (viable) numbers at 35°C and 20°C. Bacto-Plate Count Agar was the medium used. Total viable counts were read at 24 ± 2 hours for plates incubated at 35°C and 48 ± 3 hours for plates incubated at 20°C. Counts were calculated and recorded as Standard Plate Counts per ml of water at the specified temperature.

Personnel Great Lakes Division (GLD), Water Quality Division (WQD), Canadian Hydrographic Survey (CHS) and Geological Survey of Canada (GSC), Department of Energy, Mines and Resources; Public Health Engineering Division (PHED), Department of National Health and Welfare.

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Other Participating Agencies

The Canadian Oceanographic Data Centre produced and distributed the preliminary data records, and published final reports in the present series.

The Meteorological Branch of the Department of Transport provided meteorological instruments, and trained the personnel who carried out the weather observations.

Captain R. Caldwell and the crew of the "Brandal" operated the vessel in support of the limnological program.

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CRUISE 67 - 109

C-REF-NO 109
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 42-49-03N
 LON 079-10-33W

YEAR 1967
 MONTH 08
 DAY 21
 TIME 1740

NO. DEPTHS 06
 SOUNDING 0170
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	8.5	22.01	1.0	318	8.470		8.18	
4.0		21.99	1.6	316	8.520		8.15	
7.0		21.98	1.7	314	8.540		8.38	
10.0		21.94	1.4	314	8.530		8.46	
13.0		21.94	0.6	315	8.530		8.24	
16.0		21.90	0.7	315	8.520		8.13	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.250	100E00		000E00	260E01	220E01
4.0	0.001	0.260					
7.0	0.017	0.270	000E00				
10.0	0.009	0.270					
13.0	0.003	0.285					
16.0	0.006	0.315	000E00		000E00	500E01	480E01

C-REF-NO 109
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-33N
 LON 079-02-24W

YEAR 1967
 MONTH 08
 DAY 21
 TIME 1845

NO. DEPTHS 05
 SOUNDING 0150
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	8.0	22.37	0.5	316	8.530		8.27	
4.0		22.36	0.5	315	8.540		8.26	
7.0		22.33	0.5	315	8.560		8.23	
10.0		22.31	0.7	315	8.540		8.27	
13.0		22.31	0.5	315	8.530		3.31	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008		000E00		000E00	350E01	310E01
4.0	0.012						
7.0	0.001		000E00				
10.0	0.003						
13.0	0.002		100E00		000E00	230E01	160E01

C-REF-NO 109
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 42-49-06N
 LON 078-55-00W

YEAR 1967
 MONTH 08
 DAY 21
 TIME 1946

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R PO4	T NO3
1.0	7.0	22.47	0.6	313	8.590	8.46		0.057
4.0		22.44	0.6	313	8.600	8.49		0.002
7.0		22.42	0.7	313	8.580	8.46		0.002
10.0		22.42	0.5	313	8.580	8.46		0.007

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	300E01	290E01
4.0						
7.0		000E00				
10.0		000E00		000E00	300E01	170E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		91.4	26.4	39.000	8.100	1.300	11.800
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.016	0.310	0.002	0.002	0.010
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.003	0.165	0.003	5	26.9	130.9	1.1
4.0							1.1
7.0							0.8
10.0							0.7

C-REF-NO 109
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-48N
 LON 079-07-21W

YEAR 1967
 MONTH 08
 DAY 21
 TIME 2205

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								
19.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			000E00		000E00	360E01	480E01
7.0			000E00				
19.0			000E00		000E00	400E01	430E01

C-REF-NO 109
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

LAT 42-39-48N
 LON 079-06-39W

YEAR 1967
 MONTH 08
 DAY 21
 TIME 2248

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.60	0.7	324	8.480		8.45	
4.0		22.59	0.5	315	8.530		8.52	
7.0		22.58	0.5	312	8.530		8.59	
10.0		22.58	0.5	313	8.550		8.60	
13.0		22.58	0.5	312	8.530		8.71	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003		100E00		000E00	320E01	200E01
4.0	0.007						
7.0	0.002		000E00				
10.0	0.002						
13.0	0.017		000E00		000E00	200E01	110E01

C-REF-NO 109
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-30N
 LON 079-14-30W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0035

NO. DEPTHS 05
 SOUNDING 0150
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.66	0.6	314	8.520		8.49	0.007
4.0		22.68	0.6	310	8.540		8.40	0.017
7.0		22.67	0.8	309	8.560		8.41	0.002
10.0		22.67	0.6	309	8.560		8.29	0.003
13.0		22.67	0.6	316	8.600		8.38	0.004

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.007	0.180	100E00		100E00	450E01	500E01
4.0	0.001	0.200					
7.0	0.002	0.210	100E00				
10.0	0.006	0.180					
13.0	0.002	0.210	200E00		000E00	600E01	500E01

C-REF-NO 109
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-09N
 LON 079-18-57W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0133

NO. DEPTHS 04
 SOUNDING 0130
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.61	1.0	311	8.610		8.46	0.006
4.0		22.66	0.9	311	8.600		8.46	0.017
7.0		22.67	0.7	311	8.600		8.52	0.007
10.0		22.65	0.7	311	8.630		8.48	0.010

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.160	600E00		000E00	500E01	310E01
4.0	0.001	0.175					
7.0	0.018	0.190	200E00				
10.0	0.000	0.175	200E00		000E00	480E01	470E01

C-REF-NO 109
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

LAT 42-44-00N
 LON 079-19-51W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0334

NO. DEPTHS 07
 SOUNDING 0270
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.95	0.5	310	8.630		8.32	
4.0		21.93	0.5	310	8.610		8.43	
7.0		21.93	0.6	310	8.610		8.46	
10.0		21.91	0.5	310	8.600		8.62	
13.0		21.94	0.4	310	8.590		8.45	
16.0		21.91	0.5	310	8.590		8.38	
19.0		21.86	0.6	311	8.560		8.35	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.135	000E00		000E00	400E01	260E01
4.0	0.001	0.125					
7.0	0.000	0.135	000E00				
10.0	0.001	0.155					
13.0	0.012	0.170					
16.0	0.001	0.145					
19.0	0.300	1.750					

C-REF-NO 109
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

LAT 42-47-51N
 LON 079-29-06W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0513

NO. DEPTHS 06
 SOUNDING 0190
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.06	0.5	309	8.610		8.54	
4.0		22.04	0.4	310	8.620		8.54	
7.0		22.04	0.4	310	8.620		8.48	
10.0		22.02	0.4	310	8.620		8.46	
13.0		21.97	0.6	310	8.590		8.49	
16.0		21.39	0.5	313	8.530		8.18	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.095	100E00		100E00	400E01	450E01
4.0	0.001	0.095					
7.0	0.000	0.115	000E00				
10.0	0.001	0.220					
13.0	0.023	0.220					
16.0	0.003	0.205	000E00		300E00	300E01	200E01

C-REF-NO 109
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 42-50-18N
LON 079-34-45W

YEAR 1967
MONTH 08
DAY 22
TIME 0631

NO. DEPTHS 03
SOUNDING 0103
BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		20.96	0.9	313	8.390	8.54		0.006
4.0		20.94	1.1	313	8.370	7.85		0.008
7.0		20.91	1.0	312	8.340	7.71		0.009

DEPTH	R S102	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.285					
4.0	0.305					
7.0						

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	186.0	92.8	25.5	38.800	8.100		11.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.018	0.054	0.003	0.002	0.010
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.003	5	26.0	130.2	
4.0							
7.0							

C-REF-NO 109
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-18N
 LON 079-37-36W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0730

NO. DEPTHS 04
 SOUNDING 0192
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.73	0.4	306	8.440		8.38	
4.0		21.72	0.5	294	8.490		8.38	
7.0		21.67	0.5	307	8.550		8.38	
10.0		20.71	0.4	296	8.540		8.60	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.170	000E00	000E00	000E00	170E02	100E02
4.0	0.001	0.275					
7.0	0.010	0.100	370E01				
10.0	0.003	0.125					

C-REF-NO 109
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-18N
 LON 079-47-48W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 0855

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								
19.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			100E00	000E00	000E00	500E01	360E01
7.0			200E00				
19.0			000E00	000E00	000E00	700E01	680E01

C-REF-NO 109
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 42-40-24N
 LON 079-36-24W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 1054

NO. DEPTHS 10
 SOUNDING 0293
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.7	22.05	0.5	308	8.580		8.65	
4.0		22.03	0.5	309	8.620		8.57	
7.0		22.03	0.5	308	8.630		8.57	
10.0		22.02	0.4	310	8.620		8.73	
13.0		22.04	0.4	311	8.620		8.59	
16.0		22.04	0.3	291	8.630		8.62	
19.0		22.00	0.4	309	8.630		8.46	
22.0		14.76	0.4	323	7.640		4.62	
25.0		8.49	2.3	327	7.660		5.80	
28.0		8.31	2.4	342	7.390		5.78	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.085	200E00		000E00	760E01	240E01
4.0	0.000	0.100					
7.0	0.000	0.440	200E00				
10.0	0.000	0.100					
13.0	0.000	0.390					
16.0	0.000	0.200					
19.0	0.003	0.925					
22.0	0.062	1.380	100E00				
25.0	0.080	1.455					
28.0	0.085	0.290	000E00		000E00	270E02	200E02

C-REF-NO 109
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 42-30-06N
 LON 079-37-00W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 1255

NO. DEPTHS 13
 SOUNDING 0450
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	21.92	1.0	310	8.380		8.70	0.009
4.0		21.90	0.8	310	8.570		8.73	0.013
7.0		21.90	0.7	310	8.620		8.70	0.006
10.0		21.89	0.5	310	8.670		8.70	0.012
13.0		21.87	0.4	310	8.670		8.71	0.013
16.0		21.90	0.4	310	8.660		8.70	0.007
18.0		21.81	0.7	311	8.630		8.62	0.006
21.0		18.70	0.8	312	8.250		6.79	0.005
24.0		9.14	0.8	319	8.020		9.15	0.001
27.0		6.42	0.8	322	7.920		9.68	0.001
30.0		5.12	1.6	325	7.850		9.42	0.019
36.0		5.10	1.6	324	7.800		9.31	0.022
42.0		5.15	7.1	324	7.760		9.20	0.061

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.150	000E00		000E00	450E01	260E01
4.0	0.000	0.170					
7.0	0.000	0.190	000E00				
10.0	0.002	0.220					
13.0	0.016	0.260					
16.0	0.001	0.260					
18.0	0.000	0.210					
21.0	0.027	0.290	000E00				
24.0	0.056	0.145					
27.0	0.057	0.155					
30.0	0.150	0.470					
36.0	0.150	0.890					
42.0	0.140	0.740	000E00		000E00	500E01	240E01

C-REF-NO 109
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT	42-20-12N
LOX	079-38-57W

YEAR	1967
MONTH	08
DAY	22
TIME	1458

NO. DEPTHS	06
SCUNDING	0180
BT SLIDE NO	

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	7.0	22.49	1.0	309	8.530		8.51	
4.0		22.47	2.0	309	8.600		8.78	
7.0		22.47	3.2	310	8.640		8.59	
10.0		22.46	1.0	310	8.680		8.62	
13.0		22.48	0.6	311	8.680		8.43	
16.0		22.46	0.7	311	8.670		8.46	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.325	100E01	000E00	000E00	800E01	740E01
4.0	0.024	0.240					
7.0	0.001	0.245	400E00				
10.0	0.001	0.170					
13.0	0.001	0.170					
16.0	0.003	0.175	100E00	000F00	000E00	400E01	380E01

C-REF-NO 109
CONS. NO 016
COUNTRY 18
INSTITUTE 22

LAT 42-19-54N
LON 079-46-27W

YEAR 1967
MONTH 08
DAY 22
TIME 1622

NO. DEPTHS 11
SOUNDING 0340
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	7.0	22.29	0.4	305	8.740		8.70	0.007
4.0		22.27	0.5	305	8.740		8.15	0.009
7.0		22.27	0.6	305	8.740		8.67	0.002
10.0		22.26	0.8	307	8.750		8.01	0.001
13.0		22.28	0.6	306	8.730		8.62	0.002
16.0		22.27	0.5	305	8.730		8.57	
19.0		22.26	0.8	308	8.700		8.07	0.011
22.0		8.18	0.9	322	8.020		7.33	0.006
24.0		5.18	2.0	322	7.850		8.43	0.005
27.0		5.01	2.0	322	7.760		9.06	0.010
30.0		4.95	3.3	321	7.720		9.07	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.170	900E00		000E00	100E02	260E01
4.0	0.018	0.270					
7.0	0.005	0.285	000E00				
10.0	0.003	0.200					
13.0	0.000	0.280					
16.0	0.018	0.415					
19.0	0.001	0.180					
22.0	0.165	0.800	100E00				
24.0	0.175	0.750					
27.0	0.175	0.720					
30.0	0.170	0.720	000E00		000E00	400E01	190E01

C-REF-NO 109
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-51N
 LON 079-54-42W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 1821

NO. DEPTHS 11
 SOUNDING 0330
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	8.0	22.16	0.5	306	8.660		8.46	
4.0		22.10	0.6	305	8.690		8.32	
7.0		22.05	0.6	305	8.670		8.48	
10.0		22.03	1.0	305	8.700		7.99	
13.0		22.05	0.7	305	8.720		8.62	
16.0		21.98	0.5	307	8.690		8.40	
19.0		8.18	0.6	317	7.990		9.14	
22.0		5.20	1.0	322	7.890		9.79	
25.0		5.19	1.5	323	7.830		9.61	
28.0		5.15	1.3	325	7.800		9.46	
31.0		5.14	2.9	325	7.790		9.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.029	0.240	000E00		000E00	370E01	300E01
4.0	0.026	0.210					
7.0	0.017	0.260	000E00				
10.0	0.017	0.170					
13.0	0.022	0.330					
16.0	0.018	0.355					
19.0	0.046	0.495					
22.0	0.165	0.540	000E00				
25.0	0.165	0.545					
28.0	0.165	0.540					
31.0	0.165	0.210	200E00		000E00	690E01	150E01

C-REF-NO 109
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-30N
 LON 079-59-09W

YEAR 1967
 MONTH 08
 DAY 22
 TIME 1947

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	6.0	22.50	0.8	305	8.680		8.62	
4.0		22.55	0.7	306	8.730		8.67	
7.0		22.37	0.7	305	8.740		8.74	
10.0		22.33	0.7	307	8.730		8.62	
13.0		22.35	0.7	306	8.740		8.60	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.150	600E00		000E00	250E01	170E01
4.0	0.004	0.160					
7.0	0.001	0.155	000E00				
10.0	0.001	0.160					
13.0	0.006	0.150	100E00		000E00	120E02	340E01

C-REF-NO 109
CONS. NO 019
COUNTRY 18
INSTITUTE 22

LAT 42-10-57N
LON 080-02-54W

YEAR 1967
MONTH 08
DAY 22
TIME 2055

NO. DEPTHS 04
SOUNDING 0115
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0	3.5	22.79	0.9	323	8.490	8.45		0.004
4.0		22.71	0.9	301	8.590	8.57		0.003
7.0		22.58	0.9	300	8.600	8.27		0.007
10.0		22.50	0.6	297	8.630	8.37		0.002

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.200	100E00		000E00	250E02	150E02
4.0	0.220					
7.0	0.215	200E00				
10.0	0.200	300E00		000E00	230E02	140E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	191.0	89.9	25.8	39.000	8.200	1.300	12.800
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.011	0.081	0.002	0.002	0.018
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.003	0.165	0.002	5	27.8	131.2	1.8
4.0							1.6
7.0							2.0
10.0							1.4

C-REF-NO 109
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 42-08-33N
LON 080-06-06W

YEAR 1967
MONTH 08
DAY 22
TIME 2255

NO. DEPTHS 03
SOUNDING 0070
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T NO3
1.0	1.3		4.2	322	8.220	9.01	0.012	0.000
4.0			4.2	323	8.290	8.87	0.025	0.000
7.0			69.0	338	7.870	6.46	0.500	0.005

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.220	220E02	320E01	200E00	340E03	300E03
4.0	0.210					
7.0	0.350	300E02	400E01	240E01	310E03	680E03

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	205.0	89.0	30.8	40.100	8.400	1.400	15.800
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.037	0.750	0.003	0.004	0.050
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.002	5	31.9	134.8	3.7
4.0							3.9
7.0							2.3

C-REF-NO 109
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 42-08-00N
LON 080-12-09W

YEAR 1967
MONTH 08
DAY 23
TIME 0020

NO. DEPTHS 02
SCUNDING 0090
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			100E00	000E00	000E00	780E01	700E01
7.0			400E00	000E00	000E00	220E02	170E02

C-REF-NO 109
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 42-06-24N
LON 080-16-30W

YEAR 1967
MONTH 08
DAY 23
TIME 0058

NO. DEPTHS 02
SCUNDING 0090
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			500E00	000E00	800E00	840E01	112E02
7.0			120E01	000E00	200E00	100E02	150E02

C-REF-NO 109
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-24N
 LON 080-07-39W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 0252

NO. DEPTHS 06
 SOUNDING 0190
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.53	2.0	327	8.520		8.54	
4.0		22.48	1.4	309	8.600		8.54	
7.0		22.44	0.9	308	8.660		8.54	
10.0		22.46	1.1	309	8.670		8.56	
13.0		22.51	0.9	308	8.730		8.54	
16.0		18.51	0.7	310	8.570		7.91	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.155	000E00		000E00	120E02	900E01
4.0	0.003	0.155					
7.0	0.003	0.160	000E00				
10.0	0.002	0.155					
13.0	0.005	0.150					
16.0	0.015	0.250	000E00		000E00	200E02	120E02

C-REF-NO 109
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-54N
 LON 080-03-03W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 0446

NO. DEPTHS 10
 SOUNDING 0338
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.83	0.6	318	8.620		8.59	0.005
4.0		21.82	0.6	308	8.620		8.54	0.018
7.0		21.62	1.0	306	8.640		8.59	0.003
10.0		21.82	0.7	306	8.670		8.57	0.011
13.0		21.84	0.8	308	8.620		8.62	0.011
16.0		21.52	0.8	307	8.650		7.00	0.003
19.0		17.02	0.8	318	8.100		9.10	0.001
22.0		11.82	2.0	324	7.860		8.43	0.017
25.0		6.17	2.0	323	7.800		9.18	0.007
28.0		5.52	23.0	324	7.750		9.23	0.035

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.150	000E00		000E00	950E01	460E01
4.0	0.007	0.265					
7.0	0.007	0.140	000E00				
10.0	0.007	0.145					
13.0	0.009	0.150					
16.0	0.014	0.155					
19.0	0.044	0.600					
22.0	0.100	0.465	000E00				
25.0	0.110	0.500					
28.0	0.110	0.510	200E00		000E00	660E01	360E01

C-REF-NO 109
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-21N
 LON 079-53-33W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 0733

NO. DEPTHS 15
 SOUNDING 0605
 BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		21.47	1.0	312	8.540	8.81	0.001	0.001
4.0		21.42	0.7	313	8.550	8.79	0.002	0.002
7.0		21.42	1.0	311	8.590	8.63	0.001	0.003
10.0		21.43	0.6	311	8.590	8.62	0.003	0.001
13.0		21.41	0.6	310	8.580	8.62	0.003	0.004
16.0		15.98	0.9	319	8.120	6.16	0.007	0.006
19.0		9.98	1.0	319	7.930	7.54	0.007	0.042
22.0		8.00	1.0	323	7.830	7.94	0.009	0.075
25.0		6.73	0.7	325	7.800	9.01	0.003	0.066
28.0		6.16	1.0	324	7.780	9.45	0.006	0.080
31.0		5.74	0.8	325	7.780	9.64	0.007	0.085
37.0		5.21	1.0	322	7.800	9.64		0.095
43.0		4.64	0.8	326	7.780	10.06		0.100
49.0		4.63	1.5	327	7.760	9.51		0.109
55.0		4.63	1.8	326	7.690	9.40		0.110

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.180	000E00		000E00	890E01	550E01
4.0	0.160					
7.0	0.230	100E00				
10.0	0.165					
13.0	0.170					
16.0	0.340					
19.0	0.240					
22.0	0.280	000E00				
25.0	0.200					
28.0	0.250					
31.0	0.255					
37.0	0.370					
43.0	0.310					
49.0	0.455					
55.0	0.490	000E00		000E00	720E01	430E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	185.0	90.9	25.3	38.300	8.400	1.200	11.600
4.0							
7.0							
10.0	188.0	90.9	25.4	39.400	7.800	1.200	11.400
13.0							
16.0							
19.0	189.0	94.8	25.2	40.000	8.100	1.300	12.200
22.0							
25.0							
28.0	190.0	92.4	24.8	39.800	8.300	1.200	11.800
31.0							
37.0	189.0	93.8	25.2	39.800	8.100	1.300	12.000
43.0							
49.0							
55.0	191.0	93.8	24.6	40.100	8.100	1.200	11.800

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.020	0.018	0.002	0.002	0.003
4.0								
7.0								
10.0	0.000	0.000	0.000	0.010	0.013	0.003	0.002	0.000
13.0								
16.0								
19.0	0.000	0.000	0.000	0.000	0.016	0.003	0.002	0.000
22.0								
25.0								
28.0	0.000	0.000	0.000	0.010	0.014	0.003	0.002	0.005
31.0								
37.0	0.000	0.000	0.000	0.005	0.018	0.002	0.002	0.005
43.0								
49.0								
55.0	0.000	0.000	0.000	0.016	0.036	0.002	0.002	0.038

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.003	5	25.8	130.2	0.9
4.0							0.8
7.0							1.0
10.0	0.002	0.145	0.001	5	25.5	130.5	1.0
13.0							0.8
16.0							1.0
19.0	0.002	0.165	0.002	5	25.8	133.4	1.0
22.0							0.8
25.0							2.5
28.0	0.003	0.150	0.003	5	26.4	133.4	1.5
31.0							1.0
37.0	0.002	0.165	0.003	5	26.1	132.7	0.9
43.0							1.8
49.0							1.6
55.0	0.001	0.165	0.001	5	28.0	133.7	1.1

C-REF-NO 109
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 42-41-30N
 LON 079-52-39W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 1141

NO. DEPTHS 11
 SOUNDING 0320
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.8	21.51	0.6	319	8.480		8.60	
4.0		21.51	0.6	310	8.570		8.49	
7.0		21.51	0.5	309	8.620		8.52	
10.0		21.54	0.6	309	8.630		8.43	
13.0		21.53	0.9	310	8.610		8.15	
16.0		20.68	0.6	311	8.510		8.35	
19.0		11.44	0.6	319	7.890		8.96	
22.0		8.68	0.5	323	7.820		8.78	
25.0		7.31	1.5	325	7.750		7.84	
28.0		7.26	1.7	326	7.720		6.88	
31.0		7.14	1.8	327	7.730		6.75	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.230	400E00		000E00	680E01	700E01
4.0	0.000	0.225					
7.0	0.001	0.230	100E00				
10.0	0.000	0.200					
13.0	0.000	0.245					
16.0	0.029	0.210					
19.0	0.011	0.210					
22.0	0.003	0.280	200E00				
25.0	0.002	0.840					
28.0	0.002	0.925					
31.0	0.055	0.930	000E00		000E00	200E02	480E01

C-REF-NO 109
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-18N
 LON 079-55-54W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 1312

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	12.0	20.69	0.9	313	8.470		8.54	
4.0		20.69	0.7	311	8.470		8.52	
7.0		20.68	0.8	314	8.480		8.54	
10.0		20.63	0.7	313	8.490		8.59	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.325	600E01		000E00	400E01	600E01
4.0	0.000	0.320					
7.0	0.000	0.335	300E00				
10.0	0.022	0.325	200E00		000E00	800E01	660E01

C-REF-NO 109
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-00N
 LON 080-10-12W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 1450

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	21.12	0.3	323	8.520		8.28	
4.0		21.09	0.5	313	8.590		8.43	
7.0		21.06	0.6	313	8.600		8.56	
10.0		20.93	0.9	312	8.580		8.39	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.050	0.270	100E00	000E00	000E00	300E01	240E01
4.0	0.100	0.250					
7.0	0.105	0.250	000E00				
10.0	0.105	0.260	000E00	000E00	000E00	300E01	300E01

C-REF-NO 109
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 42-34-36N
 LON 080-01-06W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 1639

NO. DEPTHS 07
 SOUNDING 0440
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	9.0	21.23	0.5	311	8.660		8.62	0.006
4.0		21.41	0.5	311	8.660		8.51	0.008
7.0		21.43	0.6	310	8.670		8.70	0.009
10.0		21.44	0.5	312	8.670		7.63	0.005
13.0		21.45	0.6	310	8.670		8.62	0.012
16.0		21.40	0.8	312	8.660		7.96	0.008
19.0		9.61	0.7	326	7.810		7.36	0.018

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.310	000E00		000E00	500E01	250E01
4.0	0.012	0.380					
7.0	0.008	0.180	000E00				
10.0	0.000	0.390					
13.0	0.016	0.540					
16.0	0.100	0.930					
19.0	0.075	0.445					

C-REF-NO 109
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 42-30-12N
 LON 080-09-57W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 1856

NO. DEPTHS 12
 SOUNDING 0400
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	7.0	21.65	0.8	304	8.700		8.68	
4.0		21.64	0.7	304	8.670		8.70	
7.0		21.61	0.8	305	8.710		8.70	
10.0		21.59	0.6	306	8.710		8.68	
13.0		21.46	0.9	304	8.690		8.56	
16.0		21.18	1.1	304	8.660		8.54	
19.0		20.53	1.1	307	8.530		8.41	
22.0		19.19	1.5	311	8.370		8.41	
25.0		11.48	0.9	320	7.920		6.55	
28.0		7.62	0.8	321	7.820		8.07	
31.0		5.58	0.8	322	7.800		9.45	
37.0		4.76	1.8	323	7.760		8.99	

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.063	0.790	000E00		000E00	350E01	250E01
4.0	0.034	0.930					
7.0	0.175	0.810	000E00				
10.0	0.007	0.330					
13.0	0.007	0.700					
16.0	0.009	0.230					
19.0	0.085	0.370					
22.0	0.026	0.400	000E00				
25.0	0.029	0.440					
28.0	0.069	0.440					
31.0	0.095	0.445					
37.0	0.120	0.580	100E00		000E00	130E02	330E01

C-REF-NO 109
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 42-29-09N
 LON 080-18-00W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 2010

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.0	20.91	1.2	310	8.570		8.74	0.009
4.0		20.88	1.0	307	8.590		8.45	0.010
7.0		20.83	1.1	307	8.570		8.87	0.007
10.0		20.72	1.1	306	8.570		8.81	0.007
13.0		19.03	1.3	309	8.320		7.57	0.003
16.0		11.43	1.5	305	7.870		6.55	0.004
19.0		10.78	1.6	307	7.800		7.15	0.001

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.021	0.210	100E00		000E00	300E01	110E01
4.0	0.020	0.210					
7.0	0.020	0.220	100E00				
10.0	0.022	0.220					
13.0	0.037	0.285					
16.0	0.062	0.345					
19.0	0.065	0.340	000E00		000E00	160E02	530E01

C-REF-NO 109
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 42-22-15N
 LON 080-19-24W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 2148

NO. DEPTHS 08
 SOUNDING 0235
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	21.52	0.5	305	8.660		8.78	
4.0		21.50	0.7	307	8.700		8.88	
7.0		21.48	0.7	305	8.680		9.01	
10.0		21.52	0.6	290	8.720		8.90	
13.0		21.43	0.7	304	8.710		9.25	
16.0		21.21	0.6	306	8.680		8.68	
19.0		16.13	0.7	319	7.830		5.16	
22.0		9.58	1.3	323	7.730		6.39	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.170	000E00		000E00	430E01	390E01
4.0	0.014	0.205					
7.0	0.014	0.185	000E00				
10.0	0.014	0.190					
13.0	0.015	0.170					
16.0	0.022	0.180					
19.0	0.062	0.375					
22.0	0.125	0.450	000E00		000E00	170E02	790E01

C-REF-NO 109
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-27N
 LON 080-27-45W

YEAR 1967
 MONTH 08
 DAY 23
 TIME 2238

NO. DEPTHS 07
 SOUNDING 0220
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.07	0.5	291	8.720		8.49	0.003
4.0		22.05	0.5	290	8.730		8.62	0.001
7.0		22.05	0.5	291	8.740		8.62	0.002
10.0		22.08	0.5	288	8.750		8.70	0.001
13.0		22.09	0.5	290	8.760		8.62	0.007
16.0		22.04	0.5	290	8.760		8.62	0.004
19.0		21.05		290	8.700		8.31	0.005

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.120	100E00		000E00	130E02	900E01
4.0	0.010	0.135					
7.0	0.012	0.130	000E00				
10.0	0.011	0.125					
13.0	0.013	0.135					
16.0	0.010	0.115					
19.0	0.016	0.155	000E00		000E00	500E01	270E01

C-REF-NO 109
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 42-01-51N
 LON 080-29-00W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0114

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.22	1.5	326	8.580		8.67	
4.0		22.21	2.2	316	8.610		8.78	
7.0		22.20	1.8	316	8.630		8.74	
10.0		22.23	1.8	316	8.650		8.78	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.155	200E00		100E00	400E01	400E01
4.0	0.008	0.130					
7.0	0.007	0.160	000E00				
10.0	0.005	0.095	200E00		000E00	540E01	500E01

C-REF-NO 109
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-00N
 LON 080-35-54W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0218

NO. DEPTHS 06
 SOUNDING 0170
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.09	1.2	325	8.530		8.24	0.011
4.0		22.09	1.0	325	8.500		8.52	0.006
7.0		22.05	1.3	323	8.480		8.63	0.006
10.0		22.07	1.2	324	8.500		8.38	0.004
13.0		22.05	1.1	325	8.510		8.38	0.001
16.0		8.56	1.8	325	7.670		8.45	0.012

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.019	0.092	000E00		000E00	330E01	300E01
4.0	0.019	0.090					
7.0	0.018	0.090	100E00				
10.0	0.017	0.085					
13.0	0.025	0.090					
16.0	0.150	0.650	000E00		000E00	500E01	300E01

C-REF-NO 109
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-24N
 LON 080-41-15W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0355

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.23	1.5	311	8.660		8.40	
4.0		22.22	1.1	310	8.680		8.40	
7.0		22.22	2.4	310	8.680		8.46	
10.0		22.25	1.1	310	8.710		7.99	
13.0		22.25	1.0	309	8.680		8.23	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.006	0.290	220E01		000E00	400E01	340E01
4.0	0.003	0.240					
7.0	0.002	0.240	000E00				
10.0	0.002	0.225					
13.0	0.003	0.225	300E00		000E00	530E01	440E01

C-REF-NO 109
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 41-58-06N
 LON 080-57-09W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0551

NO. DEPTHS 07
 SOUNDING 0200
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.96	0.6	307	8.720		8.62	0.004
4.0		21.99	0.8	307	8.720		8.46	0.005
7.0		21.99	0.6	308	8.730		8.54	0.005
10.0		21.98	0.6	306	8.760		8.38	0.010
13.0		21.95	0.5	306	8.740		8.54	0.011
16.0		21.95	0.8	306	8.740		7.99	0.011
19.0		10.36	3.8	323	7.810		3.68	0.018

DEPTH	T NO3	R SIO2	MF CGL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.155	200E00		000E00	300E01	230E01
4.0	0.004	0.170					
7.0	0.004	0.170	110E01				
10.0	0.004	0.167					
13.0	0.003	0.175					
16.0	0.057	0.640					
19.0	0.109	1.220	000E00		000E00	140E02	710E01

C-REF-NO 109
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-09N
 LON 080-52-57W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0739

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.96	0.6	306	8.720		8.51	
4.0		21.94	0.6	306	8.760		8.68	
7.0		21.94	0.8	306	8.770		8.84	
10.0		21.98	0.8	307	8.740		8.71	
13.0		21.96	0.5	305	8.760		8.70	
16.0		21.91	0.6	305	8.760		8.48	
19.0		8.97	2.5	320	7.910		6.64	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.111	0.310	200E00		000E00	480E01	320E01
4.0	0.008	0.315					
7.0	0.010	0.145	100E00				
10.0	0.002	0.165					
13.0	0.002	0.165					
16.0	0.002	0.150					
19.0	0.123	0.700	000E00		000E00	680E01	320E01

C-REF-NO 109
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-03N
 LON 080-44-18W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 0929

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.00	0.5	321	8.670		8.52	0.002
4.0		21.99	0.4	295	8.690		8.57	0.001
7.0		21.97	0.4	307	8.700		8.57	0.001
10.0		22.00	0.5	295	8.690		8.59	0.001
13.0		21.99	0.4	307	8.680		8.60	0.002
16.0		21.97	0.4	294	8.700		8.54	0.005
19.0		21.95	0.7	296	8.710		8.56	0.002

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.142	000E00		000E00	890E01	840E01
4.0	0.004	0.140					
7.0	0.006	0.165	000E00				
10.0	0.005	0.165					
13.0	0.006	0.157					
16.0	0.004	0.160					
19.0	0.005	0.167	000E00		000E00	510E01	300E01

C-REF-NO 109
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-27N
 LON 080-41-48W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 1223

NO. DEPTHS 06
 SOUNDING 0180
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	5.0	19.94	1.0	306	8.560		8.74	
4.0		19.91	0.9	295	8.550		8.82	
7.0		19.90	1.0	295	8.550		8.82	
10.0		19.93	0.9	311	8.550		8.74	
13.0		19.46	3.0	298	8.440		8.85	
16.0		12.65	1.6	329	7.520		2.62	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.027	0.260	100E00		000E00	300E01	250E01
4.0	0.031	0.255					
7.0	0.031	0.265	300E00				
10.0	0.031	0.260					
13.0	0.038	0.320					
16.0	0.110	0.610	100E00		000E00	550E01	240E01

C-REF-NO 109
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 42-36-48N
 LON 080-50-15W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 1536

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	3.5	19.33	1.5	327	8.370		8.65	0.003
4.0		19.31	1.3	315	8.410		8.65	0.001
7.0		19.31	1.3	315	8.410		8.62	0.003
10.0		19.32	1.3	312	8.420		8.61	0.001
13.0		13.50	2.8	330	7.750		4.58	0.002

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.042	0.290	200E00		000E00	300E01	300E01
4.0	0.040	0.310					
7.0	0.039	0.300	400E00				
10.0	0.039	0.290					
13.0	0.079	0.515	400E00		000E00	680E01	350E01

C-REF-NO 109
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 42-37-42N
 LON 081-05-33W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 1528

NO. DEPTHS 04
 SOUNDING 0130
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.0	19.64	1.3	312	8.410		8.56	
4.0		19.60	1.2	310	8.480		8.56	
7.0		19.56	1.3	309	8.480		8.65	
10.0		19.26	2.2	313	8.360		7.52	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.033	0.270	000E00		000E00	300E01	230E01
4.0	0.031	0.260					
7.0	0.033	0.260	400E00				
10.0	0.042	0.325	800E00		000E00	400E01	380E01

C-REF-NO 109
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 42-38-12N
 LON 081-11-15W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 1627

NO. DEPTHS 04
 SOUNDING 0109
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	3.0	19.11	1.7	313	8.380		8.65	0.001
4.0		19.08	2.4	312	8.370		8.62	0.001
7.0		18.46	3.4	315	8.340		8.46	0.005
10.0		15.93	7.4	331	7.840		3.96	0.017

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.230					
4.0	0.001	0.200					
7.0	0.001	0.220					
10.0	0.002	0.185					

C-REF-NO 109
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 42-24-39N
 LON 081-07-15W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 1826

NO. DEPTHS 07
 SOUNDING 0220
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	21.31	0.9	307	8.610		8.62	
4.0		21.29	0.6	305	8.700		7.99	
7.0		21.21	0.6	305	8.710		8.62	
10.0		21.14	0.6	303	8.700		8.23	
13.0		21.03	0.5	303	8.700		8.38	
16.0		11.70	0.8	320	7.580		1.10	
19.0		11.71	0.9	320	7.590		1.41	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.062	0.210	000E00		000E00	300E01	130E01
4.0	0.031	0.945					
7.0	0.010	0.955	000E00				
10.0	0.006	0.190					
13.0	0.087	0.185					
16.0	0.120	0.185					
19.0	0.160	0.175	000E00		000E00	120E02	430E01

C-REF-NO 109
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-48N
 LON 081-09-03W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 2102

NO. DEPTHS 07
 SOUNDING 0220
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	7.0	22.02	0.6	304	8.670		8.67	0.004
4.0		22.01	0.7	305	8.720		8.67	0.003
7.0		21.97	0.7	305	8.710		8.63	0.004
10.0		21.82	0.7	306	8.700		8.49	0.004
13.0		21.79	0.7	305	8.700		8.46	0.004
16.0		21.78	0.6	306	8.700		8.45	0.005
19.0		11.33	1.3	324	7.690		2.52	0.011

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.060	0.180	000E00		000E00	390E02	150E02
4.0	0.068	0.185					
7.0	0.058	1.080	000E00				
10.0	0.077	0.290					
13.0	0.019	0.300					
16.0	0.017	0.300					
19.0	0.016	0.285	400E00		000E00	420E02	230E02

C-REF-NO 109
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-18N
 LON 081-14-33W

YEAR 1967
 MONTH 08
 DAY 24
 TIME 2315

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	4.5	22.07	1.1	315	8.570		8.53	
4.0		22.06	1.2	322	8.600		8.57	
7.0		22.00	1.3	317	8.620		8.49	
10.0		21.79	0.6	307	8.630		8.29	
13.0		12.28	1.0	326	7.520		1.51	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.017	1.500	000E00		000E00	200E02	800E01
4.0	0.015	0.265					
7.0	0.050	0.300	000E00				
10.0	0.072	0.255					
13.0	0.012	0.270	100E00		000E00	210E02	130E02

C-REF-NO 109
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-03N
 LON 081-22-30W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 0034

NO. DEPTHS 06
 SOUNDING 0180
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.99	0.8	308	8.660		8.46	
4.0		21.97	1.3	294	8.670		8.46	
7.0		21.94	0.7	294	8.670		8.70	
10.0		21.96	0.7	308	8.680		8.52	
13.0		21.94	1.0	295	8.660		8.35	
16.0		21.79	0.8	311	8.610		8.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.007	0.295	100E00		000E00	120E02	130E02
4.0	0.009	0.225					
7.0	0.011	0.265	100E00				
10.0	0.008	0.150					
13.0	0.079	0.150					
16.0	0.002	0.180	000E00		000E00	220E02	120E02

C-REF-NO 109
CONS. NO 048
COUNTRY 18
INSTITUTE 22

LAT 41-54-45N
LON 081-34-30W

YEAR 1967
MONTH 08
DAY 25
TIME 0248

NO. DEPTHS 08
SOUNDING 0250
BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		21.94	0.9	310	8.690	8.54	0.004	0.035
4.0		21.89	1.2	307	8.710	8.51	0.008	0.024
7.0		21.91	0.8	306	8.710	8.52	0.009	0.023
10.0		21.94	0.9	306	8.700	8.41	0.007	0.021
13.0		21.93	0.8	306	8.710	8.43	0.009	0.023
16.0		21.65	1.0	296	8.680	8.20	0.007	0.022
19.0		11.20	1.1	314	7.680	1.96	0.018	0.150
22.0		10.88	1.5	316	7.540	1.41	0.026	0.131

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.170	000E00		000E00	400E01	260E01
4.0	0.880					
7.0	0.990	000E00				
10.0	0.580					
13.0	0.780					
16.0	0.660					
19.0	0.230					
22.0	0.160	000E00		000E00	600E01	500E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	183.0	89.0	24.9	37.600	8.400	1.300	11.800
4.0							
7.0							
10.0	182.0	93.8	24.4	38.400	8.300	1.300	11.800
13.0							
16.0							
19.0	186.0	90.9	23.9	38.300	8.400	1.300	11.600
22.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.005	0.025	0.002	0.002	0.012
4.0								
7.0								
10.0	0.000	0.000	0.000	0.016	0.092	0.003	0.002	0.150
13.0								
16.0								
19.0	0.000	0.000	0.000	0.037	1.200	0.004	0.003	0.240
22.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.000	5	25.2	128.4	1.0
4.0							0.5
7.0							0.7
10.0	0.004	0.165	0.002	5	25.5	130.2	1.5
13.0							0.5
16.0							0.5
19.0	0.004	0.165	0.006	5	25.8	130.2	0.4
22.0							0.5

C-REF-NO 109
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-45N
 LON 081-32-15W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 0623

NO. DEPTHS 07
 SOUNDING 0220
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.32	1.3	307	8.580		8.54	
4.0		20.29	1.0	309	8.580		8.57	
7.0		20.27	1.3	309	8.570		7.13	
10.0		20.23	1.1	307	8.570		7.32	
13.0		10.91	1.2	314	7.520		1.07	
16.0		10.83	1.0	312	7.400		0.91	
19.0		10.87	1.1	316	7.380		0.99	

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.050	0.175	000E00		000E00	400E01	300E01
4.0	0.044	0.220					
7.0	0.044	0.200	000E00				
10.0	0.044	0.210					
13.0	0.143	0.825					
16.0	0.139	0.780					
19.0	0.140	0.800	000E00		000E00	300E01	200E01

C-REF-NO 109
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-15N
 LON 081-28-45W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 0845

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.21	0.9	318	8.510		8.54	
4.0		20.18	0.7	308	8.550		8.62	
7.0		20.17	0.7	307	8.540		8.65	
10.0		20.03	0.7	307	8.540		9.46	

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.032	0.230					
4.0	0.032	0.245					
7.0	0.032	0.245					
10.0	0.036	0.245					

C-REF-NO 109
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 42-26-09N
 LON 081-39-24W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 1035

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.36	0.8	305	8.560		8.85	0.011
4.0		20.34	0.7	304	8.550		8.31	0.011
7.0		20.34	0.8	289	8.560		8.32	0.008
10.0		20.36	0.7	305	8.560		8.45	0.007

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.041	0.225	000E00		000E00	350E01	200E01
4.0	0.034	0.235					
7.0	0.041	0.235	000E00				
10.0	0.034	0.245	160E01		000E00	180E02	440E01

C-REF-NO 109
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 42-16-03N
 LON 081-48-24W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 1230

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.27	0.9	293	8.370		8.25	
4.0		19.25	0.9	295	8.360		8.27	
7.0		19.23	1.0	296	8.330		8.24	
10.0		19.26	1.0	297	8.340		8.23	
13.0		19.26	1.0	308	8.340		8.23	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.061	0.285					
4.0	0.061	0.300					
7.0	0.063	0.290					
10.0	0.060	0.300					
13.0	0.055	0.295					

C-REF-NO 109
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-30N
 LON 081-49-42W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 1502

NO. DEPTHS 08
 SOUNDING 0250
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	21.95	0.7	326	8.630		8.56	0.010
4.0		21.93	0.7	315	8.690		8.57	0.011
7.0		21.92	0.9	314	8.670		8.54	0.009
10.0		21.95	0.9	314	8.690		8.48	0.007
13.0		21.94	0.8	314	8.680		8.49	0.023
16.0		21.92	0.9	314	8.700		8.46	0.026
19.0		18.68	0.7	315	8.470		6.93	0.029
22.0		10.79	0.9	318	7.400		1.24	0.044

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.235	100E00		000E00	300E01	200E01
4.0	0.020	0.225					
7.0	0.005	0.235	000E00				
10.0	0.007	0.245					
13.0	0.004	0.190					
16.0	0.004	0.180					
19.0	0.020	0.345					
22.0	0.093	1.350	000E00		000E00	270E02	130E02

C-REF-NO 109
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-45N
 LON 081-42-42W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 1957

NO. DEPTHS 07
 SOUNDING 0205
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	22.42	1.0	299	8.710		8.98	
4.0		21.92	0.7	303	8.780		8.84	
7.0		21.67	0.8	303	8.740		8.79	
10.0		21.64	0.8	303	8.700		8.43	
13.0		21.62	1.0	304	8.690		8.45	
16.0		21.61	0.7	303	8.690		8.45	
19.0		11.03	1.0	321	7.750		1.60	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.023	0.100	000E00		000E00	500E01	360E01
4.0	0.024	0.100					
7.0	0.028	0.107	200E00				
10.0	0.028	0.103					
13.0	0.028	0.130					
16.0	0.028	0.100					
19.0	0.063	1.345	000E00		000E00	100E02	900E01

C-REF-NO 109
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 41-43-54N
 LON 081-27-00W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 2156

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	2.8	22.44	1.4	407	8.590		8.73	0.039
4.0		22.41	1.5	406	8.620		8.63	0.037
7.0		22.18	1.4	425	8.620		8.40	0.042
10.0		21.78	1.5	460	8.490		5.50	0.051
13.0		13.41	2.2	337	7.660		0.14	0.190

DEPTH	T NO3	R SI02	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.180	000E00	000E00	000E00	130E02	100E02
4.0	0.000	0.220					
7.0	0.000	0.215	100E00				
10.0	0.002	0.280					
13.0	0.002	0.290	000E00	000E00	000E00	250E02	240E02

C-REF-NO 109
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-09N
 LON 081-35-03W

YEAR 1967
 MONTH 08
 DAY 25
 TIME 2327

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	3.5	22.12	0.9	330	8.500		8.71	
4.0		22.13	0.8	340	8.540		8.56	
7.0		22.06	0.9				8.74	
10.0		21.72	0.8	327	8.640		8.85	
13.0		21.37	1.0	332	8.640		8.85	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.315	100E00	000E00	000E00	170E02	100E02
4.0	0.005	0.300					
7.0		0.270	000E00				
10.0	0.000	0.285					
13.0	0.000	0.310	100E00	000E00	000E00	600E01	500E01

C-REF-NO 109
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-30N
 LON 081-41-03W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0044

NO. DEPTHS 06
 SOUNDING 0190
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.18	0.9	327	8.620		8.70	0.010
4.0		22.17	0.8	314	8.680		8.63	0.013
7.0		22.17	0.8	315	8.680		8.80	0.011
10.0		21.95	0.9	313	8.680		8.62	0.012
13.0		21.84	1.5	309	8.660		8.31	0.012
16.0		21.36	0.8	304	8.650		8.11	0.016

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.220	500E00	000E00	000E00	920E01	200E01
4.0	0.010	0.225					
7.0	0.008	0.230	000E00				
10.0	0.010	0.200					
13.0	0.012	0.200					
16.0	0.025	0.210	000E00	000E00	000E00	600E01	500E01

C-REF-NO 109
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 41-34-54N
 LON 081-36-18W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0202

NO. DEPTHS 04
 SOUNDING 0135
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.44	1.6	354	8.560		8.28	
4.0		22.38	1.0	354	8.510		8.24	
7.0		22.18	1.2	349	8.480		8.07	
10.0		18.23	2.1	338	7.590		2.62	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	0.250	240E01	000E00	000E00	120E03	110E03
4.0	0.041	0.270					
7.0	0.040	0.310	400E01				
10.0	0.010	1.540	100E01	000E00	000E00	900E02	800E02

C-REF-NO 109
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 41-31-57N
LON 081-41-51W

YEAR 1967
MONTH 08
DAY 26
TIME 0312

NO. DEPTHS 04
SCUNDING 0130
BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		22.20	1.4	339	8.520	8.38		0.014
4.0		21.89	1.2	330	8.520	8.29		0.010
7.0		21.69	1.0	323	8.540	7.99		0.007
10.0		21.68	0.8	323	8.540	7.80		0.008

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.300	100E01	000E00	000E00	300E02	390E02
4.0	0.325					
7.0	0.320	560E01				
10.0	0.370	100E01	600E00	000E00	400E02	220E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	209.0	90.4	27.9	40.900	8.700	1.300	15.000
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.000	0.102	0.002	0.003	0.040
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.002	5	36.5	137.9	1.4
4.0							1.1
7.0							0.8
10.0							0.6

C-REF-NO 109
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

LAT 41-37-27N
 LON 081-45-15W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0438

NO. DEPTHS 06
 SOUNDING 0175
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.03	0.8	311	8.740		8.68	
4.0		22.03	0.7	308	8.750		8.57	
7.0		22.01	0.6	308	8.750		8.54	
10.0		21.92	0.6	309	8.730		8.43	
13.0		21.34	0.6	310	8.710		8.16	
16.0		12.73	1.3	328	7.620		0.66	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.170	000E00	000E00	000E00	180E02	680E01
4.0	0.012	0.170					
7.0	0.010	0.175	100E00				
10.0	0.010	0.190					
13.0	0.009	0.180					
16.0	0.015	2.170	000E00	000E00	100E00	200E02	240E02

C-REF-NO 109
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-12N
 LON 081-49-39W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0552

NO. DEPTHS 05
 SOUNDING 0160
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.90	1.0	319	8.610		8.31	
4.0		21.86	0.9	320	8.620		8.26	
7.0		21.77	0.8	319	8.610		8.12	
10.0		21.62	0.9	319	8.600		6.66	
13.0		14.71	0.8	334	7.620		0.31	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.004	0.260	000E00	000E00	000E00	640E01	300E01
4.0	0.004	0.270					
7.0	0.007	0.285	000E00				
10.0	0.007	0.295					
13.0	0.004	2.470	000E00	400E00	700E00	940E02	280E02

C-REF-NO 109
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-21N
 LON 081-53-57W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0700

NO. DEPTHS 05
 SOUNDING 0150
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.07	1.0	321	8.640		8.46	
4.0		22.04	0.8	319	8.680		8.31	
7.0		21.84	0.9	321	8.660		8.04	
10.0		21.86	1.0	321	8.660		7.65	
13.0		21.72	0.8	317	8.660		8.02	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.007	0.230	100E00	000E00	000E00	150E02	780E01
4.0	0.004	0.220					
7.0	0.006	0.255	000E00				
10.0	0.010	0.240					
13.0	0.013	0.260	000E00	000E00	000E00	760E01	220E01

C-REF-NO 109
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 41-40-33N
 LON 081-55-24W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 0840

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		22.11	0.9	312	8.730		8.34	0.001
4.0		22.09	0.6	312	8.710		8.38	0.001
7.0		22.08	0.6	312	8.720		8.52	0.001
10.0		22.09	0.6	312	8.720		8.51	0.001
13.0		22.04	0.6	311	8.730		8.40	0.006
16.0		22.00	0.6	311	8.700		8.38	0.007
19.0		15.63	1.0	317	8.100		5.39	0.036

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.200	000E00	000E00	000E00	130E02	640E01
4.0	0.000	0.200					
7.0	0.000	0.220	000E00				
10.0	0.000	0.210					
13.0	0.008	0.200					
16.0	0.006	0.200					
19.0	0.000	0.900	000E00	000E00	100E00	240E02	180E02

C-REF-NO 109
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-21N
 LON 081-58-12W

YEAR 1967
 MONTH 08
 DAY 26
 TIME 1004

NO. DEPTHS 07
 SOUNDING 0220
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		22.04	0.5	296	8.630		8.46	
4.0		22.04	0.6	310	8.660		8.41	
7.0		22.01	0.5	296	8.670		8.38	
10.0		22.00	0.5	310	8.670		8.37	
13.0		21.98	0.5	310	8.660		8.31	
16.0		21.95	0.5	310	8.630		8.24	
19.0		14.98	0.7	318	7.850		4.76	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.200	000E00		100E00	100E02	460E01
4.0	0.000	0.220					
7.0	0.000	0.220	000E00				
10.0	0.000	0.230					
13.0	0.000	0.230					
16.0	0.003	0.210					
19.0	0.025	1.040	000E00		000E00	820E02	440E02

C-REF-NO 109
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-15N
 LON 081-42-45W

YEAR 1967
 MONTH 08
 DAY 28
 TIME 1224

NO. DEPTHS 03
 SOUNDING 0095
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T NO3
1.0			48.0	1138	6.760	1.00	0.360	0.013
4.0			27.0	820	6.970	2.74	0.240	0.018
7.0			8.4	501	7.470	6.55	0.220	0.017

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.000	220E04	250E02	350E02	140E05	500E05
4.0	2.510					
7.0	1.120	350E04	210E03	120E03	150E05	350E05

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	684.0	35.6	158.6	72.400	13.300	6.200	
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.010	4.300	0.006	0.015	0.560
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.056	0.320	0.015	5	215.0	235.7	3.3
4.0							2.0
7.0							1.8

C-REF-NO 109
CONS. NO 066
COUNTRY 18
INSTITUTE 22

LAT 41-57-06N
LON 082-06-06W

YEAR 1967
MONTH 08
DAY 28
TIME 1627

NO. DEPTHS 07
SOUNDING 0210
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	21.29	1.3	319	8.540		8.40	0.014
4.0		21.27	0.9	303	8.610		7.88	0.013
7.0		21.26	0.9	315	8.610		8.40	0.015
10.0		21.30	0.8	319	8.610		8.15	0.015
13.0		21.25	0.8	318	8.630		8.27	0.021
15.0		10.93	0.7	321	7.370		1.72	0.058
18.0		10.93	0.9	324	7.310		1.28	0.058

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.310	140E01		000E00	620E01	550E01
4.0	0.002	0.310					
7.0	0.002	0.290	100E00				
10.0	0.004	0.300					
13.0	0.004	0.250					
15.0	0.090	1.590					
18.0	0.083	1.620	000E00		000E00	190E02	930E01

C-REF-NO 109
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 42-06-30N
 LON 081-56-45W

YEAR 1967
 MONTH 08
 DAY 28
 TIME 1809

NO. DEPTHS 03
 SOUNDING 0190
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0								
7.0								
19.0								

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			200E00		200E00	480E01	400E01
7.0			000E00				
19.0			300E00		000E00	150E02	750E01

C-REF-NO 109
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-12N
 LON 082-03-24W

YEAR 1967
 MONTH 08
 DAY 28
 TIME 1923

NO. DEPTHS 05
 SOUNDING 0150
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.64	1.4	306	8.350		7.99	
4.0		19.63	1.3	301	8.380		8.18	
7.0		19.50	2.0	302	8.360		7.99	
10.0		19.12	1.7	303	8.260		7.33	
13.0		13.81	1.2	316	7.530		0.71	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	0.280	000E00		100E00	960E01	850E01
4.0	0.021	0.270					
7.0	0.018	0.300	000E00				
10.0	0.022	0.350					
13.0	0.065	1.130	100E00		000E00	740E01	330E01

C-REF-NO 109
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

LAT 42-05-36N
 LON 082-23-27W

YEAR 1967
 MONTH 08
 DAY 28
 TIME 2144

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	2.7	20.26	2.3	292	8.390		8.56	0.012
4.0		20.14	2.1	292	8.450		8.48	0.004
7.0		19.90	2.3	292	8.420		8.26	0.014

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.280					
4.0	0.017	0.255					
7.0	0.015	0.250					

C-REF-NO 109
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

LAT 41-52-27N
 LON 082-26-18W

YEAR 1967
 MONTH 08
 DAY 28
 TIME 2326

NO. DEPTHS 04
 SOUNDING 0115
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	2.5	20.44	1.5	292	8.600		9.70	
4.0		20.26	1.4	275	8.650		9.54	
7.0		19.97	1.2	290	8.520		8.54	
10.0		19.87	1.7	276	8.430		8.37	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.140	000E00		000E00	820E01	770E01
4.0	0.011	0.180					
7.0	0.014	0.185	000E00				
10.0	0.017	0.180	000E00		000E00	150E02	780E01

C-REF-NO 109
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 41-47-30N
 LON 082-22-00W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0038

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PD4
1.0		20.25	2.0	282	8.550		8.78	0.012
4.0		20.26	1.7	281	8.560		8.92	0.017
7.0		20.06	2.2	298	8.510		8.48	0.019
10.0		20.06	2.1	283	8.480		8.31	0.018

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.095	000E00		000E00	620E01	600E01
4.0	0.010	0.090					
7.0	0.010	0.100	000E00				
10.0	0.025	0.075	000E00		000E00	480E01	400E01

C-REF-NO 109
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 41-35-36N
 LON 082-07-21W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0255

NO. DEPTHS 06
 SOUNDING 0170
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PD4
1.0		21.38	2.0	326	8.470		8.73	
4.0		21.37	2.1	326	8.470		8.05	
7.0		21.36	1.9	326	8.470		7.88	
10.0		21.34	2.1	324	8.460		7.76	
13.0		21.31	1.8	326	8.470		7.71	
16.0		18.67	2.8	326	8.220		6.47	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.004	0.300	300E00		000E00	100E02	900E01
4.0	0.004	0.290					
7.0	0.003	0.525	300E00				
10.0	0.002	0.320					
13.0	0.002	0.290					
16.0	0.002	0.590	000E00		000E00	380E02	280E02

C-REF-NO 109
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-21N
 LON 082-04-33W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0359

NO. DEPTHS 05
 SOUNDING 0140
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.24	2.3	330	8.430		7.96	0.021
4.0		21.22	2.5	331	8.430		7.73	0.023
7.0		21.19	2.4	328	8.430		7.90	0.034
10.0		21.14	2.8	329	8.430		7.36	0.029
13.0		21.12	3.5	330	8.420		7.68	0.034

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.270	200E00		100E00	720E01	600E01
4.0	0.004	0.270					
7.0	0.004	0.250	100E00				
10.0	0.004	0.265					
13.0	0.004	0.255	100E00		100E00	150E02	100E02

C-REF-NO 109
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-00N
 LON 082-12-45W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0513

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.19	2.4	333	8.460		7.96	
4.0		21.19	2.2	332	8.460		7.87	
7.0		21.18	2.1	330	8.470		7.84	
10.0		21.20	2.0	330	8.470		6.89	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.240	100E00	000E00	000E00	720E01	640E01
4.0	0.011	0.240					
7.0	0.010	0.220	100E00				
10.0	0.010	0.220	000E00	000E00	200E00	880E01	640E01

C-REF-NO 109
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-15N
 LON 082-19-51W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0618

NO. DEPTHS 05
 SOUNDING 0140
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.14	1.8	329	8.470		7.99	0.022
4.0		21.12	1.6	330	8.470		7.96	0.021
7.0		21.09	1.6	330	8.480		7.98	0.017
10.0		21.00	1.6	330	8.460		7.63	0.018
13.0		18.90	4.0	331	7.800		2.82	0.032

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.260	000E00		000E00	800E01	760E01
4.0	0.005	0.260					
7.0	0.005	0.270	100E00				
10.0	0.004	0.290					
13.0	0.007	1.400	000E00		000E00	600E01	600E01

C-REF-NO 109
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 41-26-30N
 LON 082-24-15W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0718

NO. DEPTHS 03
 SOUNDING 0950
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.24	3.3	324	8.500		8.04	
4.0		21.22	3.2	324	8.540		8.01	
7.0		21.22	2.8	324	8.540		7.96	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.190	100E00		000E00	660E01	560E01
4.0	0.007	0.225					
7.0	0.007	0.180	000E00		000E00	840E01	600E01

C-REF-NO 109
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 41-26-03N
 LON 082-32-45W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0829

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PD4
1.0		21.30	4.2	323	8.600		8.16	0.028
4.0		21.27	4.1	323	8.620		8.20	0.025
7.0		21.27	4.5	323	8.620		8.20	0.024

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.015	0.120	100E00		000E00	860E01	680E01
4.0	0.021	0.095					
7.0	0.010	0.105	000E00		000E00	120E02	800E01

C-REF-NO 109
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-42N
 LON 082-35-27W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 0944

NO. DEPTHS 04
 SOUNDING 0130
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PD4
1.0		21.13	3.0	308	8.360		7.43	
4.0		21.15	2.6	319	8.440		7.43	
7.0		21.14	2.8	318	8.440		7.43	
10.0		21.16	2.4	322	8.440		7.44	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.047	0.350	100E00		000E00	440E01	720E01
4.0	0.050	0.310					
7.0	0.050	0.320	100E00				
10.0	0.080	0.350	300E00		000E00	160E02	940E01

C-REF-NO 109
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-48N
 LON 082-31-15W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1058

NO. DEPTHS 04
 SOUNDING 0130
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		21.27	2.5	303	8.570		7.99	0.041
4.0		21.26	2.2	315	8.590		7.98	0.041
7.0		21.25	2.5	315	8.600		7.98	0.035
10.0		21.28	2.0	298	8.600		7.96	0.028

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.034	0.500	000E00		000E00	110E02	800E01
4.0	0.035	0.500					
7.0	0.062	0.500	000E00				
10.0	0.049	0.500	000E00		000E00	600E01	500E01

C-REF-NO 109
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-48N
 LON 082-38-45W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1151

NO. DEPTHS 03
 SOUNDING 0128
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0								
7.0								
10.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			000E00		000E00	600E01	400E01
7.0			000E00				
10.0			000E00		000E00	640E01	160E02

C-REF-NO 109
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 41-42-06N
 LON 082-35-06W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1313

NO. DEPTHS 04
 SOUNDING 0130
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	1.8	21.30	2.9	293	8.590		8.24	
4.0		21.29	2.5	291	8.580		8.21	
7.0		21.27	3.0	291	8.570		8.18	
10.0		21.27	2.8	291	8.540		7.99	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.031	0.085	500E00		000E00	150E02	150E02
4.0	0.032	0.080					
7.0	0.030	0.080	000E00				
10.0	0.036	0.075	600E00		000E00	800E01	720E01

C-REF-NO 109
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-24N
 LON 082-30-15W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1437

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	2.0	21.10	2.3	268	8.570		8.27	0.032
4.0		21.07	2.6	267	8.610		8.34	0.010
7.0		21.02	2.3	267	8.610		8.51	0.009
10.0		20.70	2.6	276	8.520		8.09	0.012

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.064	0.070	310E01		250E01	650E01	420E01
4.0	0.055	0.062					
7.0	0.053	0.073	000E00				
10.0	0.064	0.050	000E00		000E00	480E01	580E01

C-REF-NO 109
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-33N
 LON 082-34-18W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1559

NO. DEPTHS 04
 SOUNDING 0100
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.0	21.54	3.1	266	8.630		8.62	
4.0		21.51	3.2	266	8.660		8.01	
7.0		21.50	2.9	265	8.670		8.43	
10.0		21.26	5.6	268	8.530		7.44	

DEPTH	T NO3	R SI02	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.040	0.045	100E00		000E00	120E02	400E01
4.0	0.058	0.230					
7.0	0.040	0.050	000E00				
10.0	0.054	0.067	000E00		000E00	280E02	600E01

C-REF-NO 109
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-06N
 LON 082-36-21W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1654

NO. DEPTHS 03
 SCUNDING 0095
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.0	21.59	5.0	260	8.710		8.70	0.035
4.0		21.57	4.5	258	8.770		8.54	0.024
7.0		21.44	4.5	259	8.710		8.27	0.017

DEPTH	T NO3	R SI02	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.060	0.072	000E00	000E00	000E00	110E02	170E02
4.0	0.060	0.075					
7.0	0.060	0.075	000E00	000E00	000E00	200E02	150E02

C-REF-NO 109
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-33N
 LON 082-44-57W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1753

NO. DEPTHS 03
 SOUNDING 0090
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	2.0	21.64	4.9	257	8.750		8.85	
4.0		21.64	4.4	254	8.790		8.78	
7.0		21.51	5.2	255	8.760		8.63	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.096	0.100					
4.0	0.073	0.115					
7.0	0.096	0.085					

C-REF-NO 109
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-15N
 LON 082-56-51W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 1923

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T NO3
1.0	2.0	21.78	3.4	276	8.610	8.81	0.012	0.205
4.0		21.76	3.9	273	8.620	8.54	0.006	0.225
7.0		21.35	3.2	273	8.590	8.54	0.010	0.210

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.500	100E00	000E00	000E00	200E02	800E01
4.0	0.450					
7.0	0.510	000E00	000E00	000E00	230E02	100E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	160.0	77.9	18.5	32.300	7.500	1.000	10.800
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.025	0.104	0.003	0.002	0.012
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.120	0.002	5	27.2	111.5	3.0
4.0							2.2
7.0							1.7

C-REF-NO 109
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-27N
 LON 083-04-24W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 2036

NO. DEPTHS 03
 SOUNDING 0090
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	2.0	21.44	3.4	271	8.020		7.26	
4.0		21.04	3.2	267	8.060		7.29	
7.0		20.78	3.0	262	8.050		7.27	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.205	0.710	600E00	000E00	000E00	400E02	380E02
4.0	0.220	0.740					
7.0	0.215	0.670	160E01	000E00	000E00	300E03	250E03

C-REF-NO 109
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 41-53-39N
 LON 083-11-48W

YEAR 1967
 MONTH 08
 DAY 29
 TIME 2143

NO. DEPTHS 03
 SOUNDING 0079
 BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T NO3
1.0	1.8	21.60	3.9	235	8.540	8.62	0.026	0.113
4.0		21.39	4.0	236	8.520	8.48	0.026	0.114
7.0		20.76	3.6	235	8.340	8.45	0.047	0.111

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.540	000E00	000E00	000E00	400E02	960E02
4.0	0.510					
7.0	0.620	000E00	000E00	000E00	260E02	130E03

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	136.0	80.3	17.8	29.400	7.600	1.000	6.600
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.029	0.190	0.004	0.002	0.010
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.004	0.120	0.003	5	14.5	104.8	2.2
4.0							1.5
7.0							0.8

C-REF-NO 109
 CONS. NO 089
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-45N
 LON 082-53-42W
 YEAR 1967
 MONTH 08
 DAY 29
 TIME 2348

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	1.5	21.78	5.5	251	8.470		9.15	
4.0		21.76	5.5	248	8.570		9.25	
7.0		21.68	5.5	247	8.580		9.17	
10.0		21.34	5.5	244	8.480		8.15	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.090	0.740	000E00	000E00	000E00	310E02	250E02
4.0	0.090	0.690					
7.0	0.090	0.680	200E00				
10.0	0.080	0.400	200E00	000E00	000E00	330E02	250E02

C-REF-NO 109
 CONS. NO 090
 COUNTRY 18
 INSTITUTE 22

LAT 41-41-03N
 LON 082-56-00W
 YEAR 1967
 MONTH 08
 DAY 30
 TIME 0120

NO. DEPTHS 03
 SOUNDING 0090
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0		21.79	3.6	268	8.830		9.01	
4.0		21.76	4.1	265	8.820		9.10	
7.0		21.59	4.6	266	8.670		7.99	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005		300E00	000E00	000E00	190E02	170E02
4.0	0.005						
7.0	0.010		000E00	000E00	000E00	170E02	900E01

C-REF-NO 109
 CONS. NO 091
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-33N
 LON 082-52-00W
 YEAR 1967
 MONTH 08
 DAY 30
 TIME 0216

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0		21.88	11.0	278	8.720		8.85	0.016
4.0		21.86	5.2	270	8.770		8.88	0.024
7.0		21.84	4.7	269	8.770		8.84	0.027

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.200	000E00		000E00	210E02	160E02
4.0	0.021	0.180					
7.0	0.025	0.180	000E00		000E00	250E02	120E02

C-REF-NO 109
 CONS. NO 092
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-30N
 LON 082-45-09W

YEAR 1967
 MONTH 08
 DAY 30
 TIME 0356

NO. DEPTHS 03
 SOUNDING 0090
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.93	2.8	258	8.770		9.29	
4.0		21.92	2.8	257	8.790		9.20	
7.0		21.69	3.3	258	8.700		8.62	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.017	0.130	100E00		000E00	220E02	190E02
4.0	0.019	0.125					
7.0	0.026	0.100	400E00		000E00	200E02	130E02

C-REF-NO 109
 CONS. NO 093
 COUNTRY 18
 INSTITUTE 22

LAT 41-43-21N
 LON 082-44-45W

YEAR 1967
 MONTH 08
 DAY 30
 TIME 0458

NO. DEPTHS 03
 SOUNDING 0095
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.81	4.2	275	8.630		8.31	0.028
4.0		21.81	3.9	276	8.620		8.40	0.037
7.0		21.56	5.3	283	8.550		7.88	0.030

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.125	300E00	000E00	000E00	280E02	250E02
4.0	0.015	0.110					
7.0	0.016	0.130	000E00	000E00	000E00	330E02	120E02

C-REF-NO 109
 CONS. NO 094
 COUNTRY 18
 INSTITUTE 22

LAT 41-38-03N
 LON 082-45-57W

YEAR 1967
 MONTH 08
 DAY 30
 TIME 0550

NO. DEPTHS 03
 SOUNDING 0073
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		21.73	5.1	282	8.700		8.74	
4.0		21.74	5.3	283	8.700		8.74	
7.0		21.37	6.5	286	8.620		8.23	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.125	600E00	000E00	000E00	280E02	280E02
4.0	0.040	0.180					
7.0	0.010	0.125	100E00	000E00	000E00	250E02	140E02

C-REF-NO 109
CONS. NO 095
COUNTRY 18
INSTITUTE 22

LAT 41-41-24N
LON 083-28-12W

YEAR 1967
MONTH 08
DAY 30
TIME 1355

NO. DEPTHS 03
SOUNDING 0085
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T NO3
1.0	0.5		21.0	499	7.480	1.43	1.090	0.400
4.0			21.0	503	7.500	8.93	1.210	0.350
7.0			39.0	485	7.490	0.96	1.330	0.325

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	1.720	750E02	260E02	330E02	400E04	140E05
4.0	1.695					
7.0	1.610	620E02	800E01	240E02	300E04	100E05

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0							
4.0	379.0	116.0	69.1	49.000	15.200	3.300	25.400
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.022	0.750	0.007	0.008	0.138
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.010	0.615	0.005	5	35.2	184.9	4.1
4.0							4.9
7.0							4.4

C-REF-NO 109
 CONS. NO 096
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-15N
 LON 083-08-24W

YEAR 1967
 MONTH 08
 DAY 30
 TIME 1629

NO. DEPTHS 03
 SOUNDING 0080
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	1.5	20.96	4.6	264	8.270		8.78	0.024
4.0		20.92	4.5	256	8.310		8.67	0.019
7.0		20.89	4.4	256	8.320		8.52	0.028

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.127	0.770	400E01	400E00	000E00	120E02	100E02
4.0	0.130	0.730					
7.0	0.130	0.740	130E01	000E00	000E00	270E02	170E02

C-REF-NO 109
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-03N
 LON 083-04-51W

YEAR 1967
 MONTH 08
 DAY 30
 TIME 1734

NO. DEPTHS 03
 SOUNDING 0097
 BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R PO4	T NO3
1.0	1.5	21.47	6.4	276	8.430	7.99	0.069	0.100
4.0		21.46	6.2	271	8.420	7.96	0.076	0.090
7.0		21.45	6.8	271	8.440	7.88	0.097	0.099

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.350	000E00		000E00	370E02	230E02
4.0	0.320					
7.0	0.360	000E00		000E00	390E02	380E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	122.0	84.2	21.0	32.400	7.800	1.200	10.000
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.031	0.270	0.004	0.003	0.018
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.140	0.000	5	20.0	112.9	1.3
4.0							1.0
7.0							1.2

C-REF-NO 109
CONS. NO 098
COUNTRY 18
INSTITUTE 22

LAT 42-22-09N
LON 080-19-00W

YEAR 1967
MONTH 08
DAY 31
TIME 0912

NO. DEPTHS 00
SOUNDING 0235
BT SLIDE NO

DEPTH SECCHI TEMP TURB SP CON PH 25 BOD W 02 W R P04

DEPTH T NO3 R SIO2 MF COL MF FCO MF STR SPC 20 SPC 35

C-REF-NO 109
CONS. NO 099
COUNTRY 18
INSTITUTE 22

LAT 42-15-39N
LON 079-59-00W

YEAR 1967
MONTH 08
DAY 31
TIME 1102

NO. DEPTHS 00
SOUNDING 0160
BT SLIDE NO

DEPTH SECCHI TEMP TURB SP CON PH 25 BOD W 02 W R P04

DEPTH T NO3 R SIO2 MF COL MF FCO MF STR SPC 20 SPC 35

C-REF-NO 109
CONS. NO 100
COUNTRY 18
INSTITUTE 22

LAT 42-43-54N
LON 079-20-03W

YEAR 1967
MONTH 08
DAY 31
TIME 1533

NO. DEPTHS 09
SOUNDING 0260
BT SLIDE NO

DEPTH SECCHI TEMP TURB SP CON PH 25 BOD W 02 W R P04

1.0	6.5	20.82	1.6	313	8.510	8.31
4.0		20.80	1.1	312	8.560	8.68
7.0		20.79	1.1	314	8.560	8.56
10.0		20.82	1.1	312	8.560	9.21
13.0		20.81	1.3	313	8.560	8.56
16.0		20.81	1.2	302	8.560	9.07
19.0		20.80	1.0	316	8.560	8.51
22.0		20.76	1.3	314	8.560	8.46
25.0		9.33	1.8	326	7.500	5.14

DEPTH T NO3 R SIO2 MF COL MF FCO MF STR SPC 20 SPC 35

1.0
4.0
7.0
10.0
13.0
16.0
19.0
22.0
25.0

CRUISE 67 - 111

C-REF-NO 111
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 42-49-00N
 LON 079-10-33W

YEAR 1967
 MONTH 09
 DAY 11
 TIME 1812

NO. DEPTHS 07
 SCUNDING 0198
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	19.78	0.9	319	8.440		8.90	0.005
4.0		19.82	0.7	319	8.480		8.87	0.011
7.0		19.80	0.7	319	8.480		8.58	0.008
10.0		19.79	0.8	318	8.480		8.55	0.007
13.0		19.76	0.5	319	8.490		8.62	0.007
16.0		19.73	0.7	320	8.470		8.71	0.008
19.0		17.25	1.0	324	8.170		6.19	0.016

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.200	100E00		000E00	240E01	210E01
4.0	0.001	0.230					
7.0	0.007	0.250	100E00				
10.0	0.005	0.250					
13.0	0.003	0.250					
16.0	0.012	0.250					
19.0	0.033	0.640	700E00		000E00	610E01	390E01

C-REF-NO 111
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-21N
 LON 079-02-45W

YEAR 1967
 MONTH 09
 DAY 11
 TIME 1945

NO. DEPTHS 06
 SCUNDING 0189
 BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.99	1.0	320	8.410		8.65	
4.0		19.96	0.7	320	8.440		8.71	
7.0		19.95	0.9	316	8.450		8.66	
10.0		19.95	1.1	322	8.450		8.68	
13.0		19.89	0.9	323	8.430		8.38	
16.0		19.63	1.1	322	8.430		8.38	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.280	000E00		000E00	300E01	270E01
4.0	0.009	0.270					
7.0	0.005	0.290	000E00				
10.0	0.002	0.280					
13.0	0.021	0.320					
16.0	0.005	0.320	000E00		000E00	100E01	500E00

C-REF-NO 111
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-57N
 LON 078-55-06W

YEAR 1967
 MONTH 09
 DAY 11
 TIME 2133

NO. DEPTHS 04
 SOUNDING 0131
 BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0	4.0	19.99	0.7	318	8.480	9.39		0.004
4.0		19.98	0.7	321	8.480	9.17	0.001	0.002
7.0		19.96	0.8	323	8.520	9.06	0.001	0.009
10.0		19.88	0.7	323	8.490	8.87	0.001	0.001

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.210	300E00		000E00	500E01	470E01
4.0	0.240					
7.0	0.240	300E00				
10.0	0.230	300E00		100E00	520E01	410E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	186.0	91.9	25.9	40.000	8.000	1.200	11.600
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.013	0.027	0.004	0.003	0.015
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.005	0.160	0.010	5	25.8	132.8	1.0
4.0							1.1
7.0							0.6
10.0							0.9

C-REF-NO 111
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-45N
 LON 079-07-21W
 YEAR 1967
 MONTH 09
 DAY 11
 TIME 2348

NO. DEPTHS 03
 SCUNDING 0226
 BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								
20.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			140E01		000E00	360E01	310E01
7.0			000E00				
20.0			000E00		000E00	380E01	200E01

C-REF-NO 111
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

LAT 42-39-45N
 LON 079-06-42W
 YEAR 1967
 MONTH 09
 DAY 12
 TIME 0032

NO. DEPTHS 05
 SCUNDING 0155
 BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.94	1.6	317	8.500		9.12	
4.0		19.92	1.2	316	8.500		9.01	
7.0		19.91	1.0	320	8.510		8.99	
10.0		19.95	2.2	319	8.520		8.99	
13.0		19.95	0.8	320	8.540		8.98	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.034	0.310	000E00		000E00	300E01	160E01
4.0	0.008	0.220					
7.0	0.025	0.230	100E00				
10.0	0.008	0.260					
13.0	0.002	0.210	000E00		000E00	320E01	220E01

C-REF-NO 111
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-18N
 LON 079-14-24W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 0204

NO. DEPTHS 06
 SOUNDING 0196
 BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.71	1.5	328	8.490		9.09	0.001
4.0		19.69	1.5	319	8.450		9.09	0.001
7.0		17.14	1.2	319	8.250		8.36	0.002
10.0		8.53	1.0	302	7.690		7.39	0.003
13.0		7.33	1.3	337	7.690		7.36	0.014
16.0		7.32	2.3	327	7.640		7.39	0.011

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.133	1.250	000E00		000E00	220E01	190E01
4.0	0.138	0.390					
7.0	0.043	0.440	000E00				
10.0	0.129	0.650					
13.0	0.144	0.710					
16.0	0.115	0.770	000E00		000E00	150E02	130E02

C-REF-NO 111
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-09N
 LON 079-19-06W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 0305

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		17.76	1.3	325	8.300		8.74	0.003
4.0		17.78	1.0	324	8.350		8.66	0.003
7.0		17.51	2.2	325	8.320		8.55	0.021
10.0		7.74	1.5	330	7.700		7.86	0.008
13.0		6.37	1.8	328	7.670		7.75	0.024
16.0		6.36	1.0	329	7.620		7.72	0.020

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.034	0.330	700E00		000E00	450E01	160E02
4.0	0.032	0.330					
7.0	0.090	0.750	100E00				
10.0	0.160	0.660					
13.0	0.146	0.740					
16.0	0.154	0.720	100E00		000E00	500E01	320E01

C-REF-NO 111
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-51N
 LON 079-19-51W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 0521

NO. DEPTHS 09
 SOUNDING 0256
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.57	0.6	342	8.450		8.71	
4.0		19.55	0.5	321	8.460		8.82	
7.0		19.55	0.7	323	8.450		8.80	
10.0		19.58	0.7	316	8.490		8.41	
13.0		19.56	0.6	320	8.450		8.54	
16.0		19.53	0.8	322	8.440		8.74	
19.0		19.55	0.6	321	8.480		8.74	
22.0			0.7	322	8.470		8.90	
25.0		10.63	2.0	334	7.950		2.95	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.210	000E00		000E00	170E01	110E01
4.0	0.004	0.210					
7.0	0.006	0.220	000E00				
10.0	0.006	0.210					
13.0	0.004	0.210					
16.0	0.007	0.240					
19.0	0.006	0.240					
22.0	0.031	0.400	000E00				
25.0	0.151	1.270	000E00		000E00	430E01	230E01

C-REF-NO 111
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

LAT 42-47-48N
 LON 079-29-21W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 0642

NO. DEPTHS 07
 SOUNDING 0226
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.31	1.0	318	8.440		8.63	
4.0		19.31	1.0	322	8.460		8.68	
7.0		19.29	1.0	322	8.470		8.66	
10.0		19.32	1.1	320	8.470		8.66	
13.0		19.31	1.1	324	8.420		8.60	
16.0		19.31	0.9	321	8.450		8.58	
19.0		12.50	2.4	334	7.740		1.65	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.004	0.270	100E00		000E00	150E01	130E01
4.0	0.002	0.270					
7.0	0.001	0.280	200E00				
10.0	0.009	0.310					
13.0	0.007	0.290					
16.0	0.009	0.310					
19.0	0.170	1.450	000E00		000E00	210E01	130E01

C-REF-NO 111
 CONS. NO 010
 COUNTRY 18
 INSTITUTE 22

LAT 42-50-09N
 LON 079-34-57W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 0749

NO. DEPTHS 04
 SOUNDING 0122
 BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		19.23	1.1	308	8.350	8.57	0.063	0.005
4.0		19.24	1.1	318	8.420	8.60	0.046	0.014
7.0		19.22	1.3	330	8.430	8.60	0.054	0.005
10.0		19.25	1.7	334	8.430	8.51	0.085	0.005

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.310					
4.0	0.340					
7.0	0.320					
10.0	0.310					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	196.0	98.1	28.5	41.200	8.600	1.300	12.000
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.016	0.050	0.004	0.002	0.012
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.180	0.005	5	26.0	138.3	
4.0							
7.0							
10.0							

C-REF-NO 111
CONS. NO 011

COUNTRY 18
INSTITUTE 22

LAT 42-48-18N
LON 079-37-42W

YEAR 1967
MONTH 09
DAY 12
TIME 1012

NO. DEPTHS 07
SOUNDING 0196
BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.39	0.7	315	8.530		8.76	
4.0		19.38	0.8	318	8.480		8.85	
7.0		19.36	0.9	327	8.440		8.84	
10.0		19.40	0.6	302	8.520		8.84	
13.0		19.39	0.6	306	8.530		8.84	
16.0		19.37	0.7	316	8.490		8.90	
19.0		19.21	1.1	317	8.430		8.16	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.220	000E00	000E00	000E00	100E02	500E01
4.0	0.002	0.220					
7.0	0.004	0.222	000E00				
10.0	0.007	0.230					
13.0	0.005	0.230					
16.0	0.002	0.240	000E00	000E00	100E00	140E02	600E01
19.0	0.008	0.330					

C-REF-NO 111
CONS. NO 012

COUNTRY 18
INSTITUTE 22

LAT 42-46-15N
LON 079-47-54W

YEAR 1967
MONTH 09
DAY 12
TIME 1141

NO. DEPTHS 03
SOUNDING 0192
BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	3.5							
7.0								
16.0								

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			000E00	000E00	000E00	440E01	420E01
7.0			000E00				
16.0			000E00	000E00	000E00	320E01	280E01

C-REF-NO 111
 CONS. NO 013
 COUNTRY 18
 INSTITUTF 22

LAT 42-51-36N
 LON 079-34-36W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 1314

NO. DEPTHS 03
 SOUNDING 0079
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T N03
1.0	0.6		17.0	635	7.740	6.25		0.225
4.0			17.0	640	7.830	6.30		0.255
7.0			155.0	638	7.780	5.99		0.275

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.200					
4.0	2.000					
7.0	2.000					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	415.0	162.0	119.1	83.000	22.000	2.800	18.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.017	0.740	0.006	0.008	0.090
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.011	0.820	0.010	40	32.8	297.9	
4.0							
7.0							

C-REF-NO 111
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 42-40-12N
 LON 079-36-39W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 1522

NO. DEPTHS 07
 SOUNDING 0274
 BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	7.0	19.23	1.0	333	8.490		8.99	
4.0		19.16	0.8	319	8.500		9.15	
7.0		19.11	4.4	319	8.510		9.17	
10.0		19.14	1.3	316	8.520		9.01	
13.0		19.13	0.6	318	8.520		9.01	
16.0		19.11	0.7	318	8.530		9.26	
19.0		19.09	0.6	318	8.510		8.90	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.190	000E00		000E00	680E01	600E01
4.0	0.013	0.220					
7.0	0.005	0.150	000E00				
10.0							
13.0							
16.0	0.005	0.200					
19.0	0.003	0.170	000E00		000E00	440E01	320E01

C-REF-NO 111
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT	42-29-54N
LON	079-37-21W

YEAR	1967
MONTH	09
DAY	12
TIME	1717

NO. DEPTHS	12
SOUNDING	0420
BT SLIDE NO	014

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	8.0	19.41	0.6	321	8.490		9.18	0.001
4.0		19.32	0.7	317	8.550		9.32	0.006
7.0		19.23	0.7	319	8.550		8.96	0.007
10.0		19.25	0.7	321	8.550		8.95	0.006
13.0		19.21	0.7	317	8.540		8.93	0.006
16.0		19.20	0.6	316	8.540		8.98	0.011
19.0		19.14	0.7	317	8.550		8.90	0.010
22.0		6.01	1.0	332	7.840		8.69	0.014
25.0		5.54	1.2	330	7.750		8.95	
28.0		5.48	2.4	331	7.730		8.71	
31.0		5.39	2.2	331	7.720		9.06	
37.0		5.40	2.2	331	7.710		8.74	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.004	0.150	000E00		000E00	310E01	240E01
4.0	0.003	0.160					
7.0	0.003	0.160	000E00				
10.0	0.004	0.170					
13.0	0.003	0.150					
16.0	0.007	0.160					
19.0	0.008	0.160					
22.0	0.011	0.170	000E00				
25.0	0.175	0.570					
28.0	0.170	0.550					
31.0	0.178	0.560					
37.0	0.168	0.570	000E00		000E00	630E01	410E01

C-REF-NO 111
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-21N
 LON 079-38-57W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 1848

NO. DEPTHS 06
 SOUNDING 0170
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	7.0	19.45	1.0	315	8.450		9.26	
4.0		19.33	0.7	316	8.510		9.37	
7.0		18.42	0.8	317	8.520		9.02	
10.0		18.26	0.9	315	8.510		9.02	
13.0		17.99	0.7	317	8.490		8.90	
16.0		17.27	0.9	318	8.440		8.62	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.180	000E00	000E00	000E00	480E01	440E01
4.0	0.016	0.210					
7.0	0.017	0.210	100E00				
10.0	0.018	0.220					
13.0	0.026	0.230					
16.0	0.038	0.280	120E01	000E00	000E00	400E01	320E01

C-REF-NO 111
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 42-19-54N
 LON 079-46-33W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 1949

NO. DEPTHS 11
 SCUNDING 0347
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	19.65	0.7	318	8.530		9.20	
4.0		19.61	0.8	317	8.580		9.21	
7.0		19.40	0.6	317	8.570		9.34	
10.0		19.30	0.6	315	8.570		8.98	
13.0		19.18	0.8	319	8.550		8.95	
16.0		19.02	0.8	320	8.510		8.93	
19.0		18.97	0.7	317	8.510		8.73	
22.0		18.48	0.9	319	8.500		8.77	
25.0		15.11	0.9	322	8.290		8.24	
28.0		11.97	0.9	309	7.980		7.37	
31.0		8.12	1.0	328	7.860		7.56	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.160	000E00		000E00	180E01	150E01
4.0	0.005	0.160					
7.0	0.005	0.160	000E00				
10.0	0.005	0.170					
13.0	0.009	0.170					
16.0	0.008	0.200					
19.0	0.010	0.200					
22.0	0.027	0.250	000E00				
25.0	0.069	0.380					
28.0	0.145	0.500					
31.0	0.161	0.590	000E00		000E00	540E01	550E01

C-REF-NO 111
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-12N
 LON 079-54-39W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 2130

NO. DEPTHS 07
 SOUNDING 0366
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.5	19.59	0.9	317	8.540		9.31	
4.0		19.56	0.9	320	8.550		9.29	
7.0		19.52	0.9	320	8.550		9.17	
10.0		19.43	0.7	316	8.570		9.15	
13.0		19.23	0.7	321	8.500		8.69	
16.0		19.21	0.7	321	8.490		8.69	
19.0		19.07	0.6	320	8.450		8.68	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.220	300E00		000E00	150E01	130E01
4.0	0.007	0.220					
7.0	0.006	0.230	000E00				
10.0	0.010	0.220					
13.0	0.011	0.220					
16.0	0.013	0.220					
19.0	0.012	0.220	000E00		000E00	120E01	800E00

C-REF-NO 111
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-42N
 LON 079-59-12W

YEAR 1967
 MONTH 09
 DAY 12
 TIME 2256

NO. DEPTHS 06
 SOUNDING 0175
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.0	19.66	0.9	315	8.630		9.23	
4.0		19.63	0.9	316	8.520		9.25	
7.0		19.63	0.8	323	8.600		9.23	
10.0		19.56	1.0	323	8.620		9.14	
13.0		19.22	0.7	312	8.570		8.60	
16.0		19.15	0.7	321	8.540		8.66	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.240	000E00		000E00	410E01	400E01
4.0	0.008	0.230					
7.0	0.008	0.250	200E00				
10.0	0.011	0.280					
13.0	0.016	0.270					
16.0	0.015	0.290	000E00		000E00	200E01	190E01

C-REF-NO 111
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

LAT 42-11-00N
 LON 080-02-57W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 0012

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R PO4	T NO3
1.0		19.87	1.8	317	8.570	8.99	0.010	0.004
4.0		19.85	2.3	326	8.580	8.95	0.011	0.009
7.0		19.81	1.0	326	8.580	8.90	0.010	0.005
10.0		19.69	1.3	324	8.470	8.44	0.018	0.018
13.0		19.31	2.5	335	8.080	7.01	0.041	0.016

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.240	400E00	000E00	000E00	320E02	300E02
4.0	0.240					
7.0	0.240	300E00				
10.0	0.280					
13.0	0.280	660E01	120E01	100E00	250E03	150E03

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	189.0	89.0	25.5	39.200	8.000	1.200	12.200
4.0							
7.0							
10.0							
13.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.012	0.051	0.004	0.002	0.010
4.0								
7.0								
10.0								
13.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.004	0.155	0.004	5	26.8	310.8	1.3
4.0							1.0
7.0							1.2
10.0							1.2
13.0							0.9

C-REF-NO 111
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 42-07-54N
 LON 080-12-06W
 YEAR 1967
 MONTH 09
 DAY 13
 TIME 0151

NO. DEPTHS 02
 SOUNDING 0104
 BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			400E00	000E00	200E00	460E01	400E01
7.0			000E00	000E00	000E00	800E01	820E01

C-REF-NO 111
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 42-06-27N
 LON 080-16-30W
 YEAR 1967
 MONTH 09
 DAY 13
 TIME 0233

NO. DEPTHS 03
 SOUNDING 0128
 BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0								
7.0								
10.0								

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			110E01	000E00	000E00	400E01	460E01
7.0			000E00				
10.0			400E00	000E00	100E00	500E01	400E01

C-REF-NO 111
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-51N
 LON 080-07-36W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 0356

NO. DEPTHS 04
 SOUNDING 0219
 BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.40	1.1	316	8.520		9.01	
4.0		19.38	0.7	317	8.580		9.09	
7.0		19.36	1.6	315	8.600		8.98	
10.0		18.66	0.9	314	8.580		9.06	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.210	100E00		000E00	600E01	520E01
4.0	0.010	0.210					
7.0	0.005	0.210	000E00				
10.0	0.008	0.220					

C-REF-NO 111
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 42-21-00N
 LON 080-02-48W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 0552

NO. DEPTHS 11
 SOUNDING 0332
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.30	1.0	321	8.510		8.95	0.015
4.0		19.29	0.8	321	8.530		9.07	0.007
7.0		19.26	0.9	319	8.550		8.95	
10.0		19.30	0.8	316	8.550		8.93	0.012
13.0		19.30	0.8	321	8.560		8.87	0.010
16.0		19.26	1.0	318	8.580		9.34	0.016
19.0		19.25	4.2	315	8.570		8.93	0.040
22.0		18.01	1.0	322	8.480		8.55	0.014
25.0		7.09	2.0	340	7.790		6.08	0.014
28.0		7.05	1.4	337	7.690		5.86	0.011
31.0		7.06	1.4	336	7.630		6.28	0.027

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.180	000E00		000E00	600E01	260E01
4.0	0.010	0.180					
7.0	0.250	0.370	000E00				
10.0	0.016	0.200					
13.0	0.015	0.210					
16.0	0.009	0.220					
19.0	0.010	0.250					
22.0	0.024	0.280	200E00				
25.0	0.027	0.230					
28.0	0.185	0.220					
31.0	0.190	0.530	000E00		000E00	900E01	840E01

C-REF-NO 111
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-06N
 LON 079-56-12W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 0822

NO. DEPTHS 12
 SOUNDING 0640
 BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		19.00	1.1	319	8.420	9.09	0.001	0.002
4.0		19.00	1.0	323	8.500	8.98	0.001	0.009
7.0		18.97	0.7	315	8.530	8.98	0.001	0.002
10.0		19.01	0.7	316	8.520	9.15	0.001	0.002
13.0		19.01	0.9	317	8.530	9.01	0.002	0.002
16.0		18.99	1.1	318	8.490	9.02	0.001	0.003
19.0		12.47	0.9	327	8.070	6.28	0.001	0.070
22.0		8.47	0.9	329	7.880	7.65	0.005	0.091
25.0		6.92	0.6	326	7.860	8.31	0.004	0.126
28.0								
37.0								
49.0		4.94	2.1	331	7.750	8.80	0.018	0.181
55.0		4.85	2.0	333	7.720	8.65	0.031	0.183
61.0		4.85	2.0	336	7.720	8.84	0.024	0.183

DEPTH	R SI02	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.175	000E00		000E00	260E01	250E01
4.0	0.170					
7.0	0.170	000E00				
10.0	0.170					
13.0	0.160					
16.0	0.170					
19.0	0.290					
22.0	0.260					
25.0	0.240					
28.0						
37.0						
49.0	0.610					
55.0	0.570					
61.0	0.570	200E00		200E00	900E01	300E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	188.0	91.9	24.9	39.200	8.000	1.300	11.800
4.0							
7.0							
10.0	182.0	92.4	25.0	39.200	8.000	1.200	11.600
13.0							
16.0							
19.0	190.0	92.8	25.5	40.000	8.000	1.200	11.800
22.0							
25.0							
28.0	192.0	94.3	25.1	40.800	8.000	1.300	12.200
37.0	196.0	94.7	25.5	40.800	7.900	1.200	11.800
49.0							
55.0	198.0	95.2	25.0	40.800	7.900	1.200	11.800
61.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.017	0.015	0.004	0.002	0.005
4.0								
7.0								
10.0	0.000	0.000	0.000	0.008	0.023	0.008	0.002	0.008
13.0								
16.0								
19.0	0.000	0.000	0.000	0.007	0.160	0.004	0.002	0.005
22.0								
25.0								
28.0	0.000	0.000	0.000	0.012	0.170	0.004	0.002	0.006
37.0	0.000	0.000	0.000	0.016	0.044	0.004	0.002	0.028
49.0								
55.0	0.000	0.000	0.000	0.013	0.070	0.003	0.003	0.045
61.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.155	0.005	5	25.6	130.8	0.9
4.0							0.9
7.0							1.0
10.0	0.001	0.155	0.002	5	25.8	130.8	1.7
13.0							1.5
16.0							0.8
19.0	0.003	0.155	0.010	5	26.0	132.8	1.0
22.0							0.6
25.0							0.6
28.0	0.002	0.155	0.012	10	26.7	134.8	
37.0	0.001	0.150	0.003	5	26.0	134.4	
49.0							0.7
55.0	0.002	0.155	0.003	5	25.8	134.4	0.5
61.0							0.2

C-REF-NO 111
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 42-41-30N
 LON 079-52-15W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 1412

NO. DEPTHS 11
 SCUNDING 0323
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	7.0	19.15	1.9	320	8.510		8.93	
4.0		19.11	0.7	317	8.520		8.93	
7.0		19.09	1.3	318	8.520		8.87	
10.0		19.11	0.6	316	8.540		8.87	
13.0		19.09	0.7	316	8.540		8.88	
16.0		19.10	2.8	318	8.520		8.82	
19.0		19.03	0.7	318	8.520		8.52	
22.0		10.13	1.4	333	7.720		4.10	
25.0		9.32	2.0	334	7.680		4.55	
28.0		6.39	3.9	334	7.700		6.69	
31.0		6.22	4.2	333	7.720		6.99	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.160	700E00		000E00	800E01	440E01
4.0	0.012	0.230					
7.0	0.001	0.160	000E00				
10.0	0.019	0.210					
13.0	0.003	0.150					
16.0	0.121	0.300					
19.0	0.050	0.280					
22.0	0.131	1.000	000E00				
25.0	0.135	1.000					
28.0	0.160	0.950					
31.0	0.141	1.100	000E00		000E00	400E01	360E01

C-REF-NO 111
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-15N
 LON 079-55-54W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 1518

NO. DEPTHS 04
 SCUNDING 0146
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.5	19.08	0.9	319	8.480		9.06	0.005
4.0		19.05	0.9	320	8.500		9.10	0.006
7.0		18.94	1.0	318	8.510		9.17	0.007
10.0		18.94	1.1	318	8.520		9.17	0.008

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.220	000E00		000E00	400E01	460E01
4.0	0.001	0.260					
7.0	0.009	0.230	000E00				
10.0	0.125	0.375	000E00		000E00	220E01	800E01

C-REF-NO 111
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-09N
 LON 080-10-12W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 1658

NO. DEPTHS 04
 SOUNDING 0116
 BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.10	2.3	326	8.460		9.14	
4.0		19.07	2.4	325	8.470		9.07	
7.0		18.99	2.5	324	8.460		9.06	
10.0		18.74	2.8	322	8.430		9.95	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			000E00	000E00	000E00	250E01	210E01
4.0							
7.0			000E00				
10.0			000E00	000E00	000E00	200E01	170E01

C-REF-NO 111
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 42-34-42N
 LON 080-01-09W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 1835

NO. DEPTHS 13
 SOUNDING 0494
 BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	6.0	19.75	0.8	321	8.510		8.51	0.007
4.0		19.20	0.8	317	8.540		9.01	0.008
7.0		19.10	0.8	316	8.540		9.14	0.009
10.0		19.05	0.7	318	8.520		8.95	0.008
13.0		18.99	0.6	316	8.520		8.95	0.001
16.0		18.89	0.6	316	8.530		9.01	0.005
19.0		18.85	0.5	316	8.510		8.82	0.005
22.0		9.71	0.7	320	7.850		6.50	0.008
25.0		7.59	0.7	330	7.820		7.89	0.001
28.0		6.06	0.6	324	7.810		8.82	0.005
31.0		5.39	1.0	331	7.810		8.95	0.006
37.0		4.85	1.1	329	7.800		8.98	
43.0		4.85	2.0	326	7.760		8.85	0.037

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.220	000E00		000E00	160E01	190E01
4.0	0.001	0.220					
7.0	0.004	0.190	000E00				
10.0	0.002	0.190					
13.0	0.001	0.180					
16.0	0.003	0.180					
19.0	0.002	0.180					
22.0	0.059	0.250	000E00				
25.0	0.087	0.280					
28.0	0.126	0.270					
31.0	0.139	0.250					
37.0	0.168	0.440					
43.0	0.169	0.560	000E00		000E00	820E01	580E01

C-REF-NO 111
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 42-30-18N
 LON 080-09-48W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 2018

NO. DEPTHS 12
 SOUNDING 0375
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	OZ W	R P04
1.0	4.0	19.63	1.0	319	8.490		9.17	
4.0		19.50	0.9	319	8.550		9.32	
7.0		19.31	1.0	318	8.550		9.01	
10.0		19.31	1.0	317	8.520		8.88	
13.0		19.29	0.8	319	8.490		8.73	
16.0		19.15	0.9	318	8.480		8.51	
19.0		11.13	1.0	332	7.860		4.46	
22.0		8.94	0.9	332	7.800		5.60	
25.0		6.56	2.6	334	7.710		6.57	
28.0		6.40	3.0	335	7.690		6.79	
31.0		5.82	3.1	334	7.690		7.26	
37.0		5.83	3.2	336	7.670		7.17	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.230	000E00		000E00	200E01	200E01
4.0	0.005	0.230					
7.0	0.012	0.220	200E00				
10.0	0.010	0.200					
13.0	0.005	0.210					
16.0	0.009	0.230					
19.0	0.146	0.750					
22.0	0.130	0.520	000E00				
25.0	0.160	0.750					
28.0	0.158	0.740					
31.0	0.170	0.650					
37.0	0.165	0.650	000E00		000E00	680E01	280E01

C-REF-NO 111
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 42-29-12N
 LON 080-17-27W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 2142

NO. DEPTHS 07
 SOUNDING 0228
 BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	OZ W	R P04
1.0	3.0	19.83	0.6	317	8.580		9.28	
4.0		19.59	0.6	313	8.620		9.37	
7.0		19.35	0.9	312	8.550		8.89	
10.0		19.36	0.5	317	8.540		8.89	
13.0		19.34	0.5	318	8.510		8.73	
16.0		19.31	0.6	317	8.520		8.89	
19.0		12.78	1.2	331	7.800		4.76	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.006	0.220	000E00		200E00	150E01	210E01
4.0	0.003	0.230					
7.0	0.007	0.220	000E00				
10.0	0.006	0.230					
13.0	0.006	0.230					
16.0	0.007	0.220					
19.0	0.080	0.660	000E00		000E00	580E01	300E01

C-REF-NO 111
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 42-21-33N
 LON 080-18-45W

YEAR 1967
 MONTH 09
 DAY 13
 TIME 2323

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	4.0	19.41	0.4	313	8.540		9.31	
4.0		19.39	0.5	317	8.570		9.30	
7.0		19.34	0.5	317	8.590		9.31	
10.0		19.03	0.8	317	8.580		9.11	
13.0		18.98	0.5	313	8.570		8.89	
16.0		18.91	0.6	316	8.530		8.81	
19.0		18.91	0.5	317	8.550		8.87	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.250	000E00		000E00	510E01	490E01
4.0	0.005	0.240					
7.0	0.003	0.250	000E00				
10.0	0.004	0.240					
13.0	0.010	0.240					
16.0	0.008	0.250					
19.0	0.006	0.240	000E00		000E00	200E01	200E01

C-REF-NO 111
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-03N
 LON 080-28-00W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0113

NO. DEPTHS 08
 SOUNDING 0247
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.53	0.5	316	8.560		8.84	
4.0		19.49	0.6	314	8.580		9.00	
7.0		19.48	0.6	314	8.600		8.98	
10.0		19.47	0.7	313	8.580		8.84	
13.0		19.44	0.7	313	8.570		8.87	
16.0		19.32	0.7	315	8.570		8.67	
19.0		19.32	0.6	317	8.560		8.58	
22.0		18.75	1.0	318	8.470		7.97	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.240	000E00		000E00	630E01	700E01
4.0	0.008	0.210					
7.0	0.010	0.210	000E00				
10.0	0.006	0.220					
13.0	0.010	0.220					
16.0	0.010	0.210					
19.0	0.024	0.220					
22.0	0.024	0.280	000E00		000E00	100E02	430E01

C-REF-NO 111
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 42-01-54N
 LON 080-28-57W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0240

NO. DEPTHS 04
 SOUNDING 0122
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.63	0.9	317	8.580		9.11	
4.0		19.59	0.9	321	8.580		9.09	
7.0		19.59	1.0	319	8.600		9.09	
10.0		19.61	1.0	317	8.590		9.06	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.250	000E00		000E00	440E01	760E01
4.0	0.010	0.220					
7.0	0.002	0.240	000E00				
10.0	0.011	0.250	000E00		000E00	370E01	260E01

C-REF-NO 111
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-00N
 LON 080-35-48W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0342

NO. DEPTHS 06
 SOUNDING 0165
 BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.65	1.0	316	8.620		9.19	0.001
4.0		19.63	0.9	317	8.640		9.25	0.001
7.0		19.60	0.8	315	8.630		9.20	0.004
10.0		19.56	0.9	316	8.610		9.16	0.002
13.0		19.44	0.8	316	8.560		8.80	0.003
16.0		15.99	1.6	329	7.800		4.35	0.005

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		0.210	000E00		000E00	350E01	250E01
4.0		0.380					
7.0		0.350	100E00				
10.0							
13.0							
16.0	0.030	0.380	000E00		000E00	150E01	900E00

C-REF-NO 111
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-21N
 LON 080-41-24W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0446

NO. DEPTHS 05
 SCUNDING 0146
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.73	1.3	325	8.480		8.76	
4.0		19.71	1.3	324	8.510		8.84	
7.0		19.69	1.3	323	8.510		8.84	
10.0		19.68	1.1	324	8.520		8.58	
13.0		19.61	1.6	322	8.510		8.53	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.220	000E00		000E00	280E01	250E01
4.0	0.012	0.230					
7.0	0.007	0.230	000E00				
10.0	0.013	0.250					
13.0	0.017	0.260	000E00		000E00	200E01	180E01

C-REF-NO 111
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 41-58-09N
 LON 080-57-21W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0615

NO. DEPTHS 07
 SCUNDING 0210
 BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.54	0.7	321	8.470		8.62	0.008
4.0		19.52	0.9	318	8.470		8.76	0.006
7.0		19.50	1.0	321	8.480		8.69	0.005
10.0		19.49	0.9	319	8.470		9.45	0.005
13.0		19.39	0.9	320	8.440		8.70	0.006
16.0		19.37	0.8	319	8.440		8.89	0.005
19.0		11.68	1.0	328	7.570		0.64	0.023

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.380	000E00		000E00	300E01	110E01
4.0	0.017	0.390					
7.0	0.008	0.640	100E00				
10.0	0.019	0.380					
13.0	0.014	0.360					
16.0	0.021	0.390					
19.0	0.090	1.750	000E00		000E00	650E01	170E01

C-REF-NO 111
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-15N
 LON 080-53-06W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0725

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.43	1.1	315	8.430		8.61	
4.0		19.40	1.1	316	8.480		8.58	
7.0		19.40	0.9	318	8.470		8.58	
10.0		19.42	0.9	318	8.480		8.54	
13.0		19.41	1.0	318	8.500		8.54	
16.0		19.39	1.0	321	8.520		8.48	
19.0		10.85	0.9	326	7.560		1.05	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.020	0.350	100E00		000E00	210E01	160E01
4.0	0.025	0.370					
7.0	0.014	0.370	000E00				
10.0	0.015	0.350					
13.0	0.022	0.340					
16.0	0.013	0.360					
19.0	0.028	1.310	300E00		000E00	240E02	420E01

C-REF-NO 111
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-06N
 LON 080-43-42W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 0901

NO. DEPTHS 07
 SOUNDING 0192
 BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.37	0.8	315	8.480		8.80	0.004
4.0		19.33	0.8	317	8.540		8.78	0.003
7.0		19.33	0.8	313	8.540		8.76	0.009
10.0		19.37	0.6	318	8.560		8.80	0.003
13.0		19.37	0.7	317	8.570		8.70	0.007
16.0		19.34	0.6	313	8.580		8.70	0.008
18.0		19.12	0.7	317	8.480		8.34	0.007

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.019	0.190	000E00		000E00	360E01	180E01
4.0	0.025	0.200					
7.0	0.024	0.180	000E00				
10.0	0.025	0.190					
13.0	0.021	0.190					
16.0	0.023	0.170					
18.0	0.028	0.210	000E00		000E00	330E01	150E01

C-REF-NO 111
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-54N
 LON 080-41-57W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 1215

NO. DEPTHS 04
 SOUNDING 0183
 BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	5.0	18.28	1.1	319	8.360		8.80	
4.0		18.27	0.8	320	8.410		8.84	
7.0		17.69	1.0	320	8.410		8.86	
10.0		17.63	0.9	318	8.420		8.89	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.024	0.300	300E00		000E00	380E01	230E01
4.0	0.025	0.300					
7.0			000E00				
10.0	0.029	0.320					

C-REF-NO 111
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 42-36-51N
 LON 080-50-33W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 1336

NO. DEPTHS 05
 SOUNDING 0165
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	4.0	18.08	1.2	320	8.340		8.58	0.007
4.0		18.04	1.2	321	8.340		8.54	0.010
7.0		18.00	1.2	321	8.360		8.47	0.006
10.0		17.67	2.1	324	8.230		7.90	0.012
13.0		17.64	2.8	325	8.190		7.78	0.009

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.032	0.420	200E00		000E00	230E01	220E01
4.0	0.019	0.390					
7.0	0.033	0.400	100E00				
10.0	0.047	0.450					
13.0	0.053	0.510	100E00		000E00	180E01	150E01

C-REF-NO 111
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 42-37-51N
 LON 081-05-30W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 1518

NO. DEPTHS 05
 SOUNDING 0134
 BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	3.0	18.26	2.2	323	8.310		8.58	
4.0		18.24	1.9	322	8.330		8.73	
7.0		18.12	1.7	322	8.310		8.51	
10.0		18.28	2.1	318	8.330		8.61	
13.0		18.07	3.0	320	8.280		8.42	

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	0.350	000E00		000E00	440E01	600E01
4.0	0.028	0.340					
7.0	0.024	0.350	000E00				
10.0	0.024	0.350					
13.0	0.026	0.350	100E00		000E00	400E01	420E01

C-REF-NO 111
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 42-38-21N
 LON 081-11-27W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 1614

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.0	18.24	3.3	323	8.270		8.61	0.010
4.0		18.24	3.2	322	8.270		8.53	0.010
7.0		17.95	3.4	322	8.230		8.48	0.014
10.0		17.94	4.2	323	8.220		8.29	0.012

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.027	0.480					
4.0	0.029	0.490					
7.0	0.036	0.500					
10.0	0.040	0.520					

C-REF-NO 111
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 42-24-33N
 LON 081-07-03W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 1813

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	6.0	19.20	1.0	322	8.520		9.17	
4.0		18.92	0.9	316	8.550		9.12	
7.0		18.80	1.0	316	8.510		8.80	
10.0		18.83	0.8	317	8.490		8.80	
13.0		18.74	0.9	320	8.450		8.53	
16.0		18.68	1.4	319	8.420		8.40	
19.0		18.66	1.1	319	8.420		8.54	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.290	000E00		000E00	640E01	500E01
4.0	0.012	0.290					
7.0	0.018	0.300	000E00				
10.0	0.014	0.290					
13.0	0.012	0.310					
16.0	0.019	0.320					
19.0	0.019	0.330	000E00		000E00	250E01	250E01

C-REF-NO 111
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-45N
 LON 081-09-06W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 2051

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	3.0	19.59	1.0	315	8.390		8.76	0.008
4.0		19.58	1.0	312	8.450		8.84	0.009
7.0		18.98	1.0	316	8.450		8.98	0.014
10.0		18.96	0.8	316	8.400		8.22	0.007
13.0		18.94	1.0	315	8.380		8.22	0.007
16.0		18.91	1.0	315	8.380		8.20	0.007
19.0		11.31	1.1	323	7.620		0.38	0.091

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.029	0.350	000E00		000E00	300E01	600E01
4.0	0.033	0.350					
7.0	0.036	0.350	000E00		000E00	200E01	420E01
10.0	0.032	0.340					
13.0	0.029	0.330					
16.0	0.025	0.350					
19.0	0.165	1.450					

C-REF-NO 111
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-39N
 LON 081-14-45W

YEAR 1967
 MONTH 09
 DAY 14
 TIME 2302

NO. DEPTHS 06
 SOUNDING 0177
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.5	19.32	1.5	351	8.330		8.40	
4.0		19.29	1.3	351	8.350		8.28	
7.0		19.28	1.2	354	8.370		8.39	
10.0		19.25	1.2	359	8.370		8.37	
13.0		18.64	1.2	464	8.180		8.37	
16.0		14.89	1.8	349	7.630		1.06	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.440	000E00		000E00	180E02	160E02
4.0	0.015	0.440					
7.0	0.017	0.390	000E00				
10.0	0.022	0.440					
13.0	0.024	0.630					
16.0	0.043	1.800	000E00		000E00	400E02	300E02

C-REF-NO 111
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-03N
 LON 081-22-36W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 0015

NO. DEPTHS 07
 SOUNDING 0204
 BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.25	0.9	320	8.390		8.45	0.031
4.0		19.23	1.0	322	8.410		8.45	0.027
7.0		19.22	1.1	319	8.420		8.45	0.023
10.0		19.25	1.1	319	8.420		8.48	0.023
13.0		19.18	0.7	319	8.400		8.42	0.009
16.0		18.86	0.9	316	8.410		8.22	0.011
19.0		12.52	1.1	326	7.540		0.22	0.010

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.017	0.430	000E00		000E00	160E02	100E02
4.0	0.020	0.430					
7.0	0.055	0.400	000E00				
10.0	0.015	0.450					
13.0	0.015	0.410					
16.0	0.022	0.350					
19.0	0.042	1.750	200E00		000E00	280E02	180E02

C-REF-NO 111
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-45N
 LON 081-33-51W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 0147

NO. DEPTHS 07
 SOUNDING 0201
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0		19.16	1.3	320	8.440	8.61	0.009	0.025
4.0		19.15	0.8	317	8.440	8.70	0.011	0.028
7.0		19.15	0.7	318	8.450	9.28	0.009	0.024
10.0		19.17	0.7	316	8.450	8.70	0.012	0.027
13.0		19.17	0.7	317	8.460	8.64		0.033
16.0		19.16	0.8	319	8.470	8.58	0.005	0.030
19.0		19.09	0.8	318	8.430	8.42	0.005	0.034

DEPTH	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.290	100E00		000E00	500E01	600E01
4.0	0.290					
7.0	0.290	000E00				
10.0	0.290					
13.0	0.290					
16.0	0.290					
19.0	0.290	000E00		000E00	400E01	400E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NP	K NFS	NA NFS
1.0	189.0	89.5	24.9	39.600	7.900	1.200	11.800
4.0							
7.0							
10.0	189.0	88.0	24.2	39.600	7.900	1.200	12.000
13.0							
16.0							
19.0	187.0	89.9	24.6	39.600	8.100	1.200	12.000

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.010	0.017	0.004	0.002	0.028
4.0								
7.0								
10.0	0.000	0.000	0.000	0.019	0.024	0.003	0.003	0.030
13.0								
16.0								
19.0	0.000	0.000	0.000	0.009	0.017	0.005	0.002	0.028

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.004	0.145	0.008	10	25.8	131.4	1.2
4.0							1.4
7.0							1.9
10.0	0.002	0.155	0.001	10	26.8	131.4	2.0
13.0							1.7
16.0							1.3
19.0	0.002	0.155	0.001	10	25.6	132.2	1.4

C-REF-NO 111
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-33N
 LON 081-32-03W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 0457

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		18.91	1.3	320	8.390		8.61	
4.0		18.88	1.0	320	8.450		8.76	
7.0		18.88	0.9	319	8.430		8.73	
10.0		18.89	0.7	316	8.440		8.62	
13.0		18.71	0.8	320	8.410		8.34	
16.0		18.67	0.8	319	8.390		8.22	
19.0		15.66	1.1	318	7.880		4.71	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.032	0.260	000E00		000E00	170E01	170E01
4.0	0.032	0.250					
7.0	0.026	0.280	000E00				
10.0	0.030	0.230					
13.0	0.023	0.280					
16.0	0.026	0.270					
19.0	0.027	0.600	000E00		100E00	500E01	190E01

C-REF-NO 111
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-21N
 LON 081-28-15W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 0706

NO. DEPTHS 04
 SOUNDING 0131
 BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		18.27	1.8	318	8.240		8.67	0.016
4.0		18.26	2.0	317	8.270		8.81	0.011
7.0		18.16	2.5	316	8.260		8.67	0.016
10.0		17.95	3.2	316	8.230		8.06	0.012

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.027	0.400					
4.0	0.022	0.410					
7.0	0.023	0.420					
10.0	0.027	0.450					

C-REF-NO 111
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 42-26-00N
 LON 081-38-42W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 0831

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		18.84	1.0	313	8.400		8.78	
4.0		18.82	1.0	313	8.400		8.75	
7.0		18.81	0.9	312	8.400		8.78	
10.0		18.32	1.6	315	8.320		8.47	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.015	0.250	000E00		000E00	200E01	180E01
4.0	0.019	0.250					
7.0	0.012	0.260	000E00				
10.0	0.032	0.260	000E00		100E00	370E01	210E01

C-REF-NO 111
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 42-16-12N
 LON 081-48-03W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1011

NO. DEPTHS 05
 SOUNDING 0137
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		18.60	1.9	314	8.300		8.70	0.010
4.0		18.58	1.8	314	8.290		8.65	0.013
7.0		18.57	1.6	311	8.310		8.59	0.010
10.0		18.52	2.0	313	8.300		8.61	0.012
13.0		18.29	2.8	312	8.270		8.31	0.013

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.049	0.290	000E00		200E00	350E01	330E01
4.0	0.003	0.280					
7.0	0.028	0.300	000E00				
10.0	0.020	0.300					
13.0	0.044	0.350	000E00		100E00	300E01	270E01

C-REF-NO 111
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-36N
 LON 081-49-54W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1248

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.35	0.6	322	8.390		8.31	0.019
4.0		19.32	0.6	315	8.400		8.31	0.016
7.0		19.30	0.9	320	8.390		8.29	0.016
10.0		19.35	0.9	318	8.390		8.33	0.017
13.0		19.34	0.7	320	8.400		8.31	0.019
16.0		19.30	0.8	319	8.380		8.31	0.008
19.0		19.32	0.6	319	8.390		8.34	0.010

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.310	000E00		000E00	200E01	160E01
4.0	0.000	0.280					
7.0	0.017	0.280	000E00				
10.0	0.018	0.290					
13.0	0.018	0.290					
16.0	0.009	0.280					
19.0	0.012	0.290	000E00		000E00	380E01	360E01

C-REF-NO 111
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-45N
 LON 081-42-33W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1438

NO. DEPTHS 08
 SOUNDING 0241
 BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.15	1.0	319	8.380		8.31	
4.0		19.15	1.0	320	8.390		8.33	
7.0		19.05	0.8	318	8.380		8.28	
10.0		19.08	0.8	318	8.370		8.25	
13.0		19.07	0.6	320	8.370		8.22	
16.0		19.06	0.8	319	8.370		8.22	
19.0		19.07	0.7	318	8.380		8.23	
22.0		11.48	11.0	324	7.480		0.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.300	000E00		000E00	560E01	200E01
4.0	0.025	0.320					
7.0	0.018	0.290	000E00				
10.0	0.000	0.310					
13.0	0.008	0.310					
16.0	0.000	0.300					
19.0	0.055	0.310					
22.0	0.100	1.500	000E00		000E00	980E01	460E01

C-REF-NO 111
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-03N
 LON 081-27-06W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1624

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.0	19.44	1.2	343	8.460		8.73	0.021
4.0		19.58	1.2	342	8.480		8.75	0.014
7.0		19.26	1.2	340	8.450		8.53	0.022
10.0		19.28	1.2	340	8.420		8.47	0.018
13.0		14.39	1.9	335	7.620		0.44	0.100

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.310	000E00	000E00	000E00	400E01	260E01
4.0	0.010	0.310					
7.0	0.010	0.300	000E00				
10.0	0.012	0.300					
13.0	0.012	2.000	000E00	200E00	000E00	800E01	660E01

C-REF-NO 111
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-21N
 LON 081-35-15W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1736

NO. DEPTHS 06
 SOUNDING 0155
 BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.0	19.64	1.3	324	8.520		8.90	
4.0		19.77	1.2	324	8.530		8.76	
7.0		19.38	1.2	322	8.540		8.84	
10.0		19.35	1.1	323	8.500		8.47	
13.0		19.33	1.3	323	8.450		8.39	
15.0		13.77	32.0	338	7.580		0.75	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.310	000E00	000E00	000E00	400E01	300E01
4.0	0.000	0.290					
7.0	0.005	0.290	000E00				
10.0	0.002	0.300					
13.0	0.008	0.290					
15.0	0.033	1.600	000E00	000E00	500E00	320E02	130E02

C-REF-NO 111
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-27N
 LON 081-41-03W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1837

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	4.0	19.71	1.4	324	8.370		8.86	0.010
4.0		19.69	1.0	318	8.430		8.81	0.002
7.0		19.19	1.0	322	8.430		8.56	0.008
10.0		19.19	1.0	323	8.410		8.62	0.007

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.000	0.280	000E00	000E00	000E00	320E01	220E01
4.0	0.015	0.280					
7.0	0.003	0.280	000E00				
10.0	0.010	0.260	000E00	000E00	000E00	300E01	260E01

C-REF-NO 111
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 41-34-54N
 LON 081-36-27W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 1931

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	3.0	20.11	1.5	328	8.450		8.58	
4.0		20.08	1.1	328	8.500		8.59	
7.0		19.95	1.8	328	8.480		8.56	
10.0		19.60	1.6	328	8.460		8.18	

DEPTH	T NO3	R SIO2	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.280	100E01	000E00	200E00	170E02	120E02
4.0	0.003	0.280					
7.0	0.002	0.400	400E00				
10.0	0.003	0.180	200E00	000E00	400E00	200E02	150E02

C-REF-NO 111
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 41-30-15N
LON 081-42-45W

YEAR 1967
MONTH 09
DAY 15
TIME 2036

NO. DEPTHS 03
SOUNDING 0100
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0			8.0	590	7.750	5.26	0.008	0.160
4.0			8.4	618	7.650	5.21	0.009	0.590
7.0			7.6	606	7.570	4.88	0.013	0.210

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	2.300	900E02	000E00	200E01	900E02	410E02
4.0	2.300					
7.0	2.300	400E02	000E00	240E01	600E02	350E02

DEPTH	F RES	TT ALK	S SD4	CA NFA	MG NF	K NFS	NA NFS
1.0	304.0	80.3	53.5	48.800	9.000	2.800	36.000
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.015	0.490	0.005	0.006	0.090
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.012	0.200	0.006	20	80.0	158.9	2.1
4.0							2.3
7.0							2.4

C-REF-NO 111
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 41-32-00N
LON 081-42-00W

YEAR 1967
MONTH 09
DAY 15
TIME 2122

NO. DEPTHS 03
SOUNDING 0073
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T N03
1.0	2.5	19.96	1.8	336	8.320	8.62	0.029	0.002
4.0		19.88	1.9	335	8.400	8.62		0.022
7.0		19.68	1.7	314	8.430	8.39		0.001

DEPTH	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		100E01	000E00	000E00	800E02	400E02
4.0						
7.0		200E01	000E00	100E00	700E02	600E02

DEPTH	F RES	TT ALK	S S04	CA NFA	MG NF	K NFS	NA NFS
1.0	196.0	92.7	26.6	40.800	8.200	1.400	14.000
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.015	0.074	0.004	0.004	0.026
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.003	0.155	0.004	10	29.5	135.7	2.0
4.0							1.8
7.0							2.5

C-REF-NO 111
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 41-37-18N
 LON 081-45-36W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 2245

NO. DEPTHS 06
 SOUNDING 0174
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	2.5	19.58	0.7	313	8.410		8.83	
4.0		19.57	0.7	320	8.400		8.84	
7.0		19.55	0.7	320	8.440		8.83	
10.0		19.52	0.8	320	8.420		8.62	
13.0		19.36	0.8	320	8.330		8.22	
16.0		19.13	0.8	323	8.300		8.12	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.028	0.400	000E00	000E00	000E00	360E01	260E01
4.0	0.017	0.410					
7.0	0.019	0.440	000E00				
10.0	0.017	0.450					
13.0	0.030	0.440					
16.0	0.018	0.460	000E00	000E00	000E00	400E01	320E01

C-REF-NO 111
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-09N
 LON 081-49-51W

YEAR 1967
 MONTH 09
 DAY 15
 TIME 2353

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.82	1.3	316	8.340		8.18	
4.0		19.80	1.2	318	8.370		8.20	
7.0		19.79	1.4	317	8.320		8.14	
10.0		19.78	1.4	319	8.300		8.09	
13.0		19.69	1.2	320	8.290		7.92	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.017	0.550	000E00	400E01	000E00	400E01	000E00
4.0	0.024	0.600					
7.0	0.029	0.610	000E00				
10.0	0.034	0.600					
13.0	0.039	0.650	100E00	600E01	000E00	600E01	200E00

C-REF-NO 111
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-24N
 LON 081-54-12W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0044

NO. DEPTHS 06
 SOUNDING 0161
 BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.90	1.5	319	8.410		8.29	
4.0		19.85	1.7	318	8.360		8.31	
7.0		19.88	1.4	316	8.340		8.33	
10.0		19.89	1.3	319	8.390		8.28	
12.0		19.92	1.4	318	8.400		8.26	
14.0		19.82	2.0	318	8.390		8.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.018	0.550	000E00	000E00	100E00	460E01	400E01
4.0	0.016	0.600					
7.0	0.027	0.610	000E00				
10.0	0.012	0.620					
12.0	0.021	0.770					
14.0	0.038	0.630	000E00	000E00	000E00	300E01	260E01

C-REF-NO 111
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 41-40-03N
 LON 081-55-09W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0201

NO. DEPTHS 07
 SOUNDING 0213
 BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.53	2.6	320	8.350		8.45	
4.0		19.50	1.0	319	8.390		8.45	
7.0		19.52	1.0	319	8.400		8.45	
10.0		19.52	1.0	320	8.400		8.44	
13.0		19.52	1.0	320	8.390		8.39	
16.0		19.48	0.9	319	8.400		8.34	
19.0		14.48	1.1	326	7.840		5.54	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	0.480	000E00	100E00	200E00	280E01	180E01
4.0	0.020	0.490					
7.0	0.029	0.370	000E00				
10.0	0.024	0.430					
13.0	0.017	0.500					
16.0	0.014	0.470					
19.0	0.023	1.140	300E00	100E00	000E00	160E02	800E01

C-REF-NO 111
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-18N
 LON 081-58-54W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0329

NO. DEPTHS 07
 SOUNDING 0226
 BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.50	1.1	332	8.370		8.26	
4.0		19.46	1.2	332	8.280		8.37	
7.0		19.46	1.9	331	8.270		8.33	
10.0		19.46	1.2	331	8.270		8.29	
13.0		19.48	1.4	331	8.270		8.36	
16.0		19.37	0.9	332	8.260		8.22	
19.0		19.40	1.3	334	8.240		8.11	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.021	0.500	000E00		000E00	600E01	480E01
4.0	0.034	0.420					
7.0	0.041	0.510	000E00				
10.0	0.030	0.520					
13.0	0.031	0.500					
16.0	0.031	0.480					
19.0	0.048	0.500	000E00		200E00	400E01	340E01

C-REF-NO 111
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-12N
 LON 082-06-09W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0526

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.42	0.9	329	8.330		8.53	
4.0		19.39	0.8	325	8.340		8.64	
7.0		19.39	0.9	324	8.350		8.56	
10.0		19.41	0.9	324	8.340		8.25	
13.0		19.39	1.0	322	8.330		8.37	
16.0		19.32	0.9	323	8.340		8.92	
19.0		19.20	0.9	322	8.330		8.17	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.470	300E00		000E00	260E01	220E01
4.0	0.005	0.470					
7.0	0.008	0.480	000E00		000E00	420E01	600E01
10.0	0.030	0.490					
13.0	0.011	0.480					
16.0	0.010	0.480					
19.0	0.005	0.048					

C-REF-NO 111
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 42-06-27N
 LON 081-56-54W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0702

NO. DEPTHS 03
 SOUNDING 0192
 BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0								
7.0								
16.0								

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			000E00		000E00	220E01	140E01
7.0			000E00				
16.0			100E00		000E00	200E01	130E01

C-REF-NO 111
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-57N
 LON 082-03-48W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 0833

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0		18.97	0.9	324	8.450		9.00	
4.0		18.95	1.0	321	8.470		8.76	
7.0		18.93	1.0	321	8.480		9.00	
10.0		18.94	1.0	320	8.460		8.92	
13.0		18.83	1.1	320	8.450		8.80	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.002	0.030	100E00		000E00	530E01	250E01
4.0	0.004	0.220					
7.0	0.005	0.230	100E00				
10.0	0.010	0.250					
13.0	0.007	0.290	000E00		000E00	370E01	400E01

C-REF-NO 111
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

LAT 42-05-09N
 LON 082-24-03W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1035

NO. DEPTHS 03
 SCUNDING 0100
 BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.34	2.5	325	8.470		8.87	
4.0		19.32	2.0	324	8.450		8.84	
7.0		19.32	2.0	325	8.450		8.84	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.320					
4.0	0.009	0.340					
7.0	0.008	0.320					

C-REF-NO 111
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

LAT 41-52-24N
 LON 082-26-00W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1214

NO. DEPTHS 04
 SCUNDING 0122
 BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	2.5	19.07	1.8	301	8.430		9.19	
4.0		19.04	1.5	298	8.450		9.22	
7.0		19.02	1.7	296	8.420		9.20	
10.0		19.06	1.5	301	8.450		9.19	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.220	100E00		100E00	700E01	500E01
4.0	0.011	0.220					
7.0	0.012	0.240	100E00				
10.0	0.013	0.240	200E00		000E00	400E01	390E01

C-REF-NO 111
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 41-47-33N
 LON 082-22-03W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1319

NO. DEPTHS 04
 SOUNDING 0149
 BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R PO4
1.0	2.5	19.37	1.7	297	8.440		9.05	
4.0		19.33	2.2	297	8.420		9.01	
7.0		19.32	1.7	295	8.400		9.01	
10.0		19.34	1.7	296	8.440		8.95	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.240	000E00		000E00	420E01	200E01
4.0	0.017	0.270					
7.0	0.005	0.240	000E00				
10.0	0.016	0.250	100E00		000E00	300E01	260E01

C-REF-NO 111
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 41-35-27N
 LON 082-07-36W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1520

NO. DEPTHS 06
 SOUNDING 0174
 BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R PO4
1.0	3.0	19.77	1.9	348	8.170		8.22	
4.0		19.73	2.0	344	8.230		8.15	
7.0		19.64	1.9	347	8.230		8.14	
10.0		19.60	1.9	347	8.210		7.93	
13.0		19.59	2.8	348	8.210		7.98	
16.0		19.56	2.2	344	8.210		7.92	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.075	0.380	000E00		000E00	300E01	200E01
4.0	0.064	0.380					
7.0	0.074	0.370	200E00				
10.0	0.070	0.380					
13.0	0.065	0.390					
16.0	0.019	0.370	200E00		300E00	400E01	220E01

C-REF-NO 111
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-15N
 LON 082-04-42W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1614

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	3.0	19.88	2.4	348	8.370		8.95	
4.0		19.88	2.5	350	8.390		9.00	
7.0		19.60	2.3	351	8.370		8.58	
10.0		19.55	2.6	348	8.330		8.11	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.085	0.260	300E00		000E00	780E01	560E01
4.0	0.081	0.320					
7.0	0.078	0.280	400E00				
10.0	0.085	0.290	500E00		400E00	400E01	320E01

C-REF-NO 111
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-03N
 LON 082-12-45W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1711

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.0	19.78	3.4	329	8.460		9.11	
4.0		19.77	3.8	330	8.460		8.53	
7.0		19.44	3.7	328	8.380		8.58	
10.0		19.36	4.2	329	8.330		9.08	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.046	0.150	000E00	000E00	000E00	320E01	240E01
4.0	0.040	0.110					
7.0	0.041	0.110	000E00				
10.0	0.044	0.140	100E00	000E00	200E00	420E01	280E01

C-REF-NO 111
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-12N
 LON 082-19-51W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1806

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	2.0	20.02	2.7	312	8.530		9.39	
4.0		19.98	3.7	306	8.560		9.47	
7.0		19.71	3.3	306	8.520		9.01	
10.0		19.61	3.5	307	8.420		8.58	
13.0		19.59	4.1	309	8.410		8.37	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.027	0.070	000E00		000E00	400E01	320E01
4.0	0.025	0.060					
7.0	0.029	0.050	000E00				
10.0	0.030	0.040					
13.0	0.034	0.040	100E00		500E00	740E01	680E01

C-REF-NO 111
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 41-26-24N
 LON 082-24-15W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 1904

NO. DEPTHS 03
 SOUNDING 0101
 BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	3.0	19.74	4.8	320	8.470		9.66	
4.0		19.80	4.9	322	8.510		9.72	
7.0		19.64	8.6	326	8.390		8.86	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.048	0.050	900E00		300E00	620E01	540E01
4.0	0.036	0.040					
7.0	0.016	0.070			200E00	240E02	600E01

C-REF-NO 111
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 41-25-48N
 LON 082-32-51W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 2005

NO. DEPTHS 03
 SOUNDING 0101
 BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	1.0	19.96	5.1	301	8.470		9.16	
4.0		19.87	5.1	294	8.540		9.61	
7.0		19.64	5.4	295	8.500		9.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.015	0.060	200E00		100E00	540E01	400E01
4.0	0.035	0.050					
7.0	0.049	0.040	000E00		000E00	400E01	420E01

C-REF-NO 111
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-42N
 LON 082-35-30W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 2118

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 076

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	1.0	19.84	5.5	295	8.480		9.31	
4.0		19.81	5.5	297	8.480		9.36	
7.0		19.75	5.2	298	8.460		9.20	
10.0		19.52	7.0	297	8.390		8.40	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.047	0.060	000E00		000E00	420E01	400E01
4.0	0.049	0.110					
7.0	0.045	0.120	000E00				
10.0	0.059	0.150	100E00		000E00	600E01	760E01

C-REF-NO 111
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-45N
 LON 082-31-30W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 2217

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.0	19.92	1.7	282	8.440		9.67	
4.0		19.88	3.2	278	8.500		9.61	
7.0		19.84	2.5	278	8.540		9.52	
10.0		19.51	3.1	279	8.480		8.39	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.017	0.230	000E00		000E00	320E01	540E01
4.0	0.010	0.220					
7.0	0.022	0.220	000E00				
10.0	0.022	0.170	000E00		100E00	460E01	380E01

C-REF-NO 111
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-51N
 LON 082-38-45W

YEAR 1967
 MONTH 09
 DAY 16
 TIME 2313

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.0	20.02						
4.0		19.99						
7.0		19.89						
10.0		19.59						

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			100E00		000E00	220E01	800E01
4.0							
7.0			800E00				
10.0			140E01		000E00	460E01	600E01

C-REF-NO 111
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 41-42-00N
 LON 082-35-03W
 YEAR 1967
 MONTH 09
 DAY 17
 TIME 0007

NO. DEPTHS 04
 SOUNDING 0101
 BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.64	2.1	292	8.530		9.78	
4.0		19.62	2.3	287	8.580		9.80	
7.0		19.60	2.1	285	8.590		9.78	
9.0		19.62	2.3	285	8.590		9.83	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.160	200E00		200E00	700E01	560E01
4.0	0.007	0.220					
7.0	0.007	0.170	100E00				
9.0	0.010	0.180	100E00		000E00	540E01	300E01

C-REF-NO 111
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-21N
 LON 082-30-18W
 YEAR 1967
 MONTH 09
 DAY 17
 TIME 0115

NO. DEPTHS 03
 SOUNDING 0119
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.99	2.2	275	8.750		10.00	
4.0		19.95	2.7	273	8.720		10.03	
7.0		19.91	2.4	270	8.740		9.91	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.220	100E00		000E00	250E01	220E01
4.0	0.005	0.210					
7.0	0.007	0.180	000E00		000E00	100E02	650E01

C-REF-NO 111
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-30N
 LON 082-34-15W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0234

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 081

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.02	3.4	265	8.770		10.24	
4.0		19.99	3.3	265	8.770		10.25	
7.0		19.97	3.5	266	8.780		10.22	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.006	0.170	100E00		000E00	230E02	140E02
4.0	0.005	0.180					
7.0	0.004	0.200	000E00		000E00	700E01	500E01

C-REF-NO 111
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-21N
 LON 082-36-18W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0334

NO. DEPTHS 04
 SCUNDING 0101
 BT SLIDE NO 082

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.96	3.6	267	8.710		10.25	
4.0		19.93	3.5	263	8.740		10.19	
7.0		19.93	3.6	260	8.740		10.33	
10.0		19.64	38.0	266	8.320		7.65	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.330	000E00	000E00	000E00	180E02	800E01
4.0	0.023	0.350					
7.0	0.013	0.370	100E00				
10.0	0.047	1.050	700E00	000E00	100E00	200E02	170E02

C-REF-NO 111
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-33N
 LON 082-45-03W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0435

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 083

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.92	4.8	257	8.640		9.95	
4.0		19.90	4.2	257	8.660		9.97	
7.0		19.87	4.1	258	8.650		9.94	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.043	0.510					
4.0	0.033	0.510					
7.0	0.032	0.600					

C-REF-NO 111
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-12N
 LON 082-56-51W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0551

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 084

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R PO4	T NO3
1.0		19.78	2.5	288	8.530	9.81		0.021
4.0		19.76	2.7	284	8.560	9.78		0.020
7.0		19.71	2.9	284	8.540	9.66		0.010

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.880	200E00	000E00	000E00	230E02	600E01
4.0	0.860					
7.0	0.900	000E00	000E00	000E00	220E02	400E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	159.0	79.8	22.0	33.600	7.400	1.000	10.800
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.015	0.495	0.005	0.008	0.080
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.013	0.200	0.010	5	23.6	114.4	1.1
4.0							1.1
7.0							1.2

C-REF-NO 111
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-54N
 LON 083-04-54W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0746

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 085

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T N03
1.0		19.53	6.0	318	8.320	9.01		0.028
4.0		19.49	6.1	317	8.400	9.01		0.032
7.0		19.17	7.7	319	8.290	7.97		0.050

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.310	400E00	000E00	000E00	820E02	600E02
4.0	0.300					
7.0	0.390	900E00	000E00	500E00	200E02	900E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	185.0	88.0	28.9	37.200	8.800	1.600	13.200
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.010	0.180	0.003	0.003	0.024
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.004	0.195	0.000	20	23.3	129.1	2.5
4.0							2.6
7.0							2.9

C-REF-NO 111
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-15N
 LON 083-04-24W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 0950

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 086

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.40	3.5	289	8.570		9.94	
4.0		19.38	3.5	288	8.560		9.97	
7.0		19.17	4.4	291	8.460		9.61	

DEPTH	T N03	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.030	0.900	350E01	200E00	200E00	330E02	180E02
4.0	0.034	0.930					
7.0		1.030	110E01	000E00	000E00	120E03	400E02

C-REF-NO 111
 CONS. NO 089
 COUNTRY 18
 INSTITUTE 22

LAT 41-53-48N
 LON 083-11-57W
 YEAR 1967
 MONTH 09
 DAY 17
 TIME 1045

NO. DEPTHS 03
 SOUNDING 0073
 BT SLIDE NO 087

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	O2 W	R P04	T N03
1.0		19.41	2.8	244	8.200	8.84		0.128
4.0		19.38	3.1	239	8.220	8.67		0.098
7.0		19.27	3.9	237	8.110	8.59		0.126

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	1.000	200E00	000E00	000E00	300E02	800E02
4.0	1.050					
7.0	1.050	500E00	200E00	600E00	650E02	600E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	136.0	80.3	16.8	29.600	7.200	0.900	6.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.018	0.151	0.004	0.004	0.008
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.003	0.125	0.000	5	16.0	103.6	2.0
4.0							1.9
7.0							1.9

C-REF-NO 111
 CONS. NO 090
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-15N
 LON 083-08-12W
 YEAR 1967
 MONTH 09
 DAY 17
 TIME 1208

NO. DEPTHS 03
 SOUNDING 0088
 BT SLIDE NO 088

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.55	4.3	258	8.400		9.06	
4.0		19.48	4.4	257	8.420		9.05	
7.0		19.46	5.1	257	8.270		9.00	

DEPTH	T N03	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.116	0.940	800E00	400E00	000E00	390E02	400E02
4.0	0.111	0.950					
7.0	0.116	0.970	700E00	000E00	400E00	800E02	500E02

C-REF-NO 111
 CONS. NO 091
 COUNTRY 18
 INSTITUTE 22

LAT 41-41-24N
 LON 083-28-12W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 1418

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R P04	T N03
1.0	0.6		11.0	582	7.530	0.91		0.020
4.0			11.0	590	7.430	0.28		0.040
7.0			12.0	582	7.410	0.34		0.080

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	3.400	150E05		160E03	200E05	200E05
4.0	3.800					
7.0	4.000	140E05		160E03	150E05	200E05

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	352.0	115.0	85.0	52.400	16.500	4.800	33.800
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.011	0.480	0.005	0.008	0.110
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.032	0.750	0.006	30	48.0	198.8	7.1
4.0							6.9
7.0							6.8

C-REF-NO 111
 CONS. NO 092
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-48N
 LON 082-53-30W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 1808

NO. DEPTHS 03
 SOUNDING 0101
 BT SLIDE NO 089

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	02 W	R P04
1.0	1.0	19.80	5.1	256	8.420		9.78	
4.0		19.59	5.1	251	8.370		9.14	
7.0		19.55	5.0	251	8.290		8.70	

DEPTH	T N03	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.089	0.590	100E00		000E00	290E02	110E02
4.0	0.084	0.610					
7.0	0.083	0.640	300E00		000E00	240E02	140E02

C-REF-NO 111
 CONS. NO 093
 COUNTRY 18
 INSTITUTE 22

LAT 41-41-03N
 LON 082-55-54W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 1919

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 090

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.5	19.70	4.1	296	8.590		9.81	
4.0		19.56	4.2	290	8.590		9.44	
7.0		19.53	5.0	289	8.600		9.41	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	0.120	100E00		300E00	420E02	120E02
4.0	0.001	0.090					
7.0	0.001	0.090	000E00		300E00	370E02	140E02

C-REF-NO 111
 CONS. NO 094
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-33N
 LON 082-52-00W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 2004

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 091

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.0	20.14	4.7	276	8.720		10.80	
4.0		19.66	5.0	276	8.690		9.52	
7.0		19.56	4.6	277	8.630		9.01	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	0.200	000E00		200E00	330E02	700E01
4.0	0.009	0.170					
7.0	0.014	0.170	000E00		000E00	320E02	180E02

C-REF-NO 111
CONS. NO 095
COUNTRY 18
INSTITUTE 22

LAT 41-49-36N
LON 082-45-06W

YEAR 1967
MONTH 09
DAY 17
TIME 2124

NO. DEPTHS 03
SOUNDING 0100
BT SLIDE NO 092

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.5	20.18	3.7	268	8.720		10.58	
4.0		19.81	3.6	266	8.590		8.98	
7.0		19.72	3.6	265	8.570		8.73	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.024	0.410	000E00		100E00	350E02	100E02
4.0	0.038	0.440					
7.0	0.049	0.490	000E00		100E00	410E02	140E02

C-REF-NO 111
CONS. NO 096
COUNTRY 18
INSTITUTE 22

LAT 41-43-27N
LON 082-44-48W

YEAR 1967
MONTH 09
DAY 17
TIME 2217

NO. DEPTHS 03
SOUNDING 0091
BT SLIDE NO 093

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.5	20.09	3.6	266	8.660		10.11	
4.0		20.02	3.5	268	8.730		9.83	
7.0		19.93	3.6	266	8.680		9.16	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	0.120	000E00		100E00	580E02	110E02
4.0	0.003	0.130					
7.0	0.003	0.140	100E00		100E00	400E02	120E02

C-REF-NO 111
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

LAT 41-37-57N
 LON 082-46-21W

YEAR 1967
 MONTH 09
 DAY 17
 TIME 2311

NO. DEPTHS 03
 SOUNDING 0073
 BT SLIDE NO 094

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	1.0	20.11	8.3	268	8.730		9.95	
4.0		20.10	8.5	270	8.660		9.59	
7.0		20.01	10.5	270	8.610		9.17	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.190	000E00		000E00	400E02	120E02
4.0	0.014	0.190					
7.0	0.016	0.220	000E00		400E00	460E02	250E02

C-REF-NO 111
 CONS. NO 098
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 0505

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 095

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.79	1.1	322	8.530		9.70	
4.0		19.65	0.9	321	8.530		9.93	
7.0		19.49	0.9	320	8.460		8.88	
10.0		19.49	1.3	319	8.430		8.91	
13.0		19.44	1.3	321	8.410		8.50	
16.0		19.33	1.3	321	8.380		8.47	
19.0		19.30	1.3	319	8.370		8.31	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.130					
4.0	0.011	0.120					
7.0	0.019	0.130					
10.0	0.015	0.150					
13.0	0.021	0.180					
16.0	0.020	0.190					
19.0	0.017	0.210					

C-REF-NO 111
 CONS. NO 099
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 0609

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 096

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.81	0.8	320	8.560		9.83	
4.0		19.67	1.0	318	8.550		10.18	
7.0		19.48	1.0	317	8.480		8.82	
10.0		19.43	1.0	318	8.410		8.80	
13.0		19.40	1.0	318	8.400		8.61	
16.0		19.34	1.6	317	8.390		8.79	
19.0		19.29	1.3	316	8.380		9.04	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	0.160					
4.0	0.013	0.120					
7.0	0.020	0.200					
10.0	0.018	0.190					
13.0	0.020	0.180					
16.0	0.020	0.200					
19.0	0.022	0.190					

C-REF-NO 111
 CONS. NO 100
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 0701

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 097

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.75	0.8	322	8.560		9.77	
4.0		19.67	1.0	319	8.550		9.89	
7.0		19.46	1.0	320	8.450		8.82	
10.0		19.40	0.9	319	8.410		8.67	
13.0		19.38	0.9	319	8.400		8.34	
16.0		19.32	0.9	319	8.390		8.63	
19.0		19.27	0.8	319	8.390		8.31	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		0.170					
4.0		0.160					
7.0	0.018	0.150					
10.0	0.017	0.140					
13.0	0.018	0.160					
16.0	0.021	0.190					
19.0	0.023	0.200					

C-REF-NO 111
 CONS. NO 101
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W
 YEAR 1967
 MONTH 09
 DAY 18
 TIME 0802

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 098

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.72	1.7	315	8.540		9.66	
4.0		19.58	0.8	317	8.530		9.29	
7.0		19.47	0.8	319	8.480		8.83	
10.0		19.48	0.8	317	8.450		8.55	
13.0		19.40	0.7	317	8.440		8.34	
16.0		19.32	0.7	318	8.420		8.31	
19.0		19.25	0.7	317	8.410		8.14	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	0.180					
4.0							
7.0		0.100					
10.0	0.017	0.160					
13.0	0.009	0.180					
16.0	0.018	0.210					
19.0	0.021	0.210					

C-REF-NO 111
 CONS. NO 102
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W
 YEAR 1967
 MONTH 09
 DAY 18
 TIME 0916

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 099

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.68	1.0	314	8.520		9.86	
4.0		19.61	0.9	315	8.520		9.43	
7.0		19.47	0.9	317	8.450		8.75	
10.0		19.49	0.9	317	8.430		8.61	
13.0		19.41	1.0	316	8.400		8.47	
16.0		19.33	0.8	315	8.400		8.33	
19.0		19.28	0.8	317	8.390		8.33	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		0.180					
4.0							
7.0		0.170					
10.0		0.150					
13.0		0.150					
16.0		0.180					
19.0		0.200					

C-REF-NO 111
CONS. NO 103
COUNTRY 18
INSTITUTE 22

LAT 41-55-00N
LON 081-33-30W

YEAR 1967
MONTH 09
DAY 18
TIME 1009

NO. DEPTHS 07
SOUNDING 0238
BT SLIDE NO 100

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.65	0.9	321	8.510		9.56	
4.0		19.61	1.0	321	8.510		9.58	
7.0		19.47	1.0	321	8.470		8.91	
10.0		19.47	1.5	321	8.430		8.64	
13.0		19.41	1.2	321	8.410		8.50	
16.0		19.33	0.8	321	8.410		8.37	
19.0		19.13	0.7	321	8.390		8.15	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.170					
4.0	0.011	0.170					
7.0	0.014	0.180					
10.0	0.014	0.170					
13.0	0.023	0.180					
16.0	0.016	0.180					
19.0	0.017	0.190					

C-REF-NO 111
CONS. NO 104
COUNTRY 18
INSTITUTE 22

LAT 41-55-00N
LON 081-33-30W

YEAR 1967
MONTH 09
DAY 18
TIME 1114

NO. DEPTHS 07
SOUNDING 0238
BT SLIDE NO 101

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		19.64	0.7	321	8.470		9.56	
4.0		19.61	0.8	323	8.490		9.50	
7.0		19.47	0.8	326	8.460		8.71	
10.0		19.44	0.9	321	8.410		8.55	
13.0		19.40	0.8	320	8.410		8.42	
16.0		19.27	0.8	319	8.410		8.25	
19.0		19.17	0.7	320	8.390		8.15	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.020	0.160					
4.0	0.023	0.180					
7.0	0.032	0.200					
10.0	0.021	0.250					
13.0	0.020	0.240					
16.0	0.024	0.250					
19.0	0.039	0.200					

C-REF-NO 111
 CONS. NO 105
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W
 YEAR 1967
 MONTH 09
 DAY 18
 TIME 1213

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 102

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.5	19.60	0.7	319	8.480		9.42	
4.0		19.54	0.7	317	8.490		9.24	
7.0		19.45	0.8	317	8.430		8.56	
10.0		19.44	1.0	317	8.400		8.53	
13.0		19.37	1.4	318	8.380		8.47	
16.0		19.24	0.7	318	8.380		8.28	
19.0		19.11	0.6	318	8.350		8.17	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.037	0.240					
4.0	0.021	0.240					
7.0	0.022	0.190					
10.0	0.027	0.180					
13.0	0.018	0.160					
16.0	0.021	0.190					
19.0	0.029	0.210					

C-REF-NO 111
 CONS. NO 106
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W
 YEAR 1967
 MONTH 09
 DAY 18
 TIME 1311

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 103

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.5	19.64	0.9	322	8.410		9.45	
4.0		19.57	0.8	317	8.390		9.31	
7.0		19.47	0.8	316	8.390		8.64	
10.0		19.45	0.7	317	8.380		8.56	
13.0		19.39	0.9	316	8.370		8.50	
16.0		19.26	0.8	316	8.360		8.37	
19.0		19.11	0.6	317	8.340		8.28	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.210					
4.0	0.015	0.190					
7.0	0.018	0.200					
10.0	0.020	0.190					
13.0	0.033	0.200					
16.0	0.020	0.210					
19.0							

C-REF-NO 111
 CONS. NO 107
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1410

NO. DEPTHS 07
 SCUNDING 0238
 BT SLIDE NO 104

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.5	19.69	0.8	301	8.550		9.61	
4.0		19.61	0.7	312	8.520		9.05	
7.0		19.45	0.7	312	8.480		8.85	
10.0		19.43	0.6	312	8.450		8.67	
13.0		19.31	0.6	300	8.430		8.52	
16.0		19.19	0.6	312	8.400		8.48	
19.0		19.00	0.6	315	8.370		8.22	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.008	0.260					
4.0	0.019	0.420					
7.0	0.005	0.220					
10.0	0.024	0.280					
13.0	0.020	0.220					
16.0	0.030	0.220					
19.0	0.017	0.250					

C-REF-NO 111
 CONS. NO 108
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1517

NO. DEPTHS 07
 SCUNDING 0238
 BT SLIDE NO 105

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	4.5	19.82	0.7	317	8.590		9.83	
4.0		19.62	0.7	317	8.570		9.56	
7.0		19.45	0.7	317	8.520		8.75	
10.0		19.42	0.7	318	8.450		8.69	
13.0		19.33	0.9	318	8.420		8.66	
16.0		19.22	0.9	318	8.400		8.60	
19.0		19.00	0.8	319	8.340		8.18	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.150					
4.0	0.015	0.140					
7.0	0.025	0.150					
10.0	0.022	0.160					
13.0	0.028	0.190					
16.0	0.021	0.190					
19.0	0.023	0.230					

C-REF-NO 111
 CONS. NO 109
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1609

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 106

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.92	0.8	317	8.490		10.02	
4.0		19.65	0.8	317	8.580		9.91	
7.0		19.56	0.6	316	8.540		9.36	
10.0		19.46	0.7	317	8.450		8.18	
13.0		19.33	0.6	317	8.430		8.75	
16.0		19.24	0.8	314	8.410		8.67	
19.0		18.93	0.6	317	8.350		8.26	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.190					
4.0	0.011	0.170					
7.0	0.007	0.150					
10.0	0.009	0.120					
13.0	0.021	0.160					
16.0	0.025	0.190					
19.0	0.029						

C-REF-NO 111
 CONS. NO 110
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1714

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 107

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.0	19.89	0.7	322	8.610		10.15	
4.0		19.62	0.7	317	8.610		9.83	
7.0		19.47	0.8	322	8.490		8.91	
10.0		19.43	0.8	322	8.440		8.94	
13.0		19.30	0.6	317	8.400		8.91	
16.0		19.20	0.6	318	8.380		8.67	
19.0		18.85	0.5	318	8.340		8.17	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	0.140					
4.0	0.008	0.200					
7.0	0.013	0.180					
10.0	0.019	0.170					
13.0	0.024	0.170					
16.0	0.025	0.180					
19.0	0.031	0.220					

C-REF-NO 111
 CONS. NO 111
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1809

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 108

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	5.0	20.32	0.8	319	8.600		10.16	
4.0		19.67	0.8	310	8.480		10.29	
7.0		19.58	0.9	318	8.530		9.62	
10.0		19.45	0.8	319	8.500		8.83	
13.0		19.30	0.7	319	8.420		8.77	
16.0		19.22	0.9	320	8.400		8.61	
19.0		19.00	0.7	320	8.350		8.31	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	0.160					
4.0	0.009	0.200					
7.0	0.009	0.190					
10.0	0.005	0.180					
13.0	0.022	0.200					
16.0	0.020	0.200					
19.0	0.028	0.220					

C-REF-NO 111
 CONS. NO 112
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 1913

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 109

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0	5.0	20.71	0.7	322	8.570		10.16	
4.0		19.75	1.2	317	8.660		10.69	
7.0		19.59	0.7	317	8.600		9.66	
10.0		19.47	0.7	319	8.460		9.05	
13.0		19.30	0.6	318	8.410		8.83	
16.0		19.22	0.7	317	8.370		9.04	
19.0		19.07	0.6	319	8.350		8.33	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	0.150					
4.0	0.008	0.150					
7.0	0.009	0.140					
10.0	0.013	0.180					
13.0	0.022	0.190					
16.0	0.010	0.210					
19.0	0.024	0.230					

C-REF-NO 111
CONS. NO 113
COUNTRY 18
INSTITUTE 22

LAT 41-55-00N
LON 081-33-30W

YEAR 1967
MONTH 09
DAY 18
TIME 2012

NO. DEPTHS 07
SOUNDING 0238
BT SLIDE NO 110

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		20.44	1.1	316	8.590		10.56	
4.0		19.68	0.7	317	8.650		10.34	
7.0		19.54	0.6	320	8.530		9.24	
10.0		19.34	0.5	317	8.440		9.02	
13.0		19.31	0.6	316	8.420		8.77	
16.0		19.22	0.5	318	8.410		8.47	
19.0		19.11	0.5	315	8.380		8.29	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.018	0.220					
4.0	0.006	0.210					
7.0							
10.0	0.020	0.200					
13.0	0.023	0.200					
16.0	0.021	0.200					
19.0	0.028	0.230					

C-REF-NO 111
CONS. NO 114
COUNTRY 18
INSTITUTE 22

LAT 41-55-00N
LON 081-33-30W

YEAR 1967
MONTH 09
DAY 18
TIME 2122

NO. DEPTHS 07
SOUNDING 0238
BT SLIDE NO 111

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0	5.5	20.34	0.8	315	8.630		10.46	
4.0		19.76	0.9	317	8.700		10.67	
7.0		19.58	0.9	317	8.600		9.80	
10.0		19.48	0.7	315	8.510		9.12	
13.0		19.28	0.8	315	8.400		8.75	
16.0		19.17	0.6	317	8.400		8.47	
19.0		19.00	0.5	317	8.370		8.29	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	0.200					
4.0	0.006	0.150					
7.0	0.008	0.120					
10.0	0.013	0.130					
13.0							
16.0	0.025	0.120					
19.0	0.026	0.160					

C-REF-NO 111
 CONS. NO 115
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 2217

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 112

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.18	0.7	318	8.570		10.42	
4.0		19.70	0.7	318	8.630		10.51	
7.0		19.56	0.6	318	8.600		9.78	
10.0		19.35	0.7	318	8.520		9.37	
13.0		19.27	0.7	318	8.460		8.71	
16.0		19.14	0.6	319	8.410		8.48	
19.0		18.60	0.6	320	8.360		8.20	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	0.170					
4.0	0.005	0.110					
7.0	0.007	0.130					
10.0	0.025	0.160					
13.0	0.022	0.160					
16.0	0.023	0.160					
19.0	0.024	0.180					

C-REF-NO 111
 CONS. NO 116
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 18
 TIME 2317

NO. DEPTHS 07
 SCUNDING 0238
 BT SLIDE NO 113

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.93	0.7	314	8.550		10.24	
4.0		20.03	0.7	317	8.610		10.64	
7.0		19.65	0.7	317	8.590		10.12	
10.0		19.47	0.7	317	8.550		9.59	
13.0		19.26	0.7	318	8.450		8.72	
16.0		19.18	0.6	318	8.400		8.63	
19.0		19.03	0.6	319	8.380		8.39	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.018	0.150					
4.0	0.009	0.120					
7.0	0.010	0.110					
10.0	0.018	0.140					
13.0	0.026	0.130					
16.0	0.025	0.110					
19.0	0.029						

C-REF-NO 111
CONS. NO 117
COUNTRY 18
INSTITUTE 22

LAT	41-55-00N	YEAR	1967
LON	081-33-30W	MONTH	09
		DAY	19
		TIME	0013

NO. DEPTHS	07
SOUNDING	0238
BT SLIDE NO	114

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		20.21	0.6	321	8.630		10.50	
4.0		19.70	0.7	313	8.680		10.37	
7.0		19.49	0.6	315	8.640		10.05	
10.0		19.33	0.5	316	8.450		9.26	
13.0		19.21	0.5	317	8.380		8.75	
16.0		19.12	0.5	300	8.350		8.50	
19.0		18.98	0.4	315	8.340		8.33	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.180					
4.0	0.014	0.170					
7.0	0.014	0.150					
10.0	0.028	0.130					
13.0	0.024	0.130					
16.0	0.025	0.120					
19.0	0.031	0.160					

C-REF-NO 111
CONS. NO 118
COUNTRY 18
INSTITUTE 22

LAT	41-55-00N	YEAR	1967
LON	081-33-30W	MONTH	09
		DAY	19
		TIME	0109

NO. DEPTHS	07
SOUNDING	0238
BT SLIDE NO	115

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R PO4
1.0		20.45	0.5	314	8.590		10.45	
4.0		19.50	0.6	315	8.570		10.18	
7.0		19.42	0.5	316	8.510		9.77	
10.0		19.34	0.5	317	8.440		9.40	
13.0		19.21	0.5	315	8.360		8.79	
16.0		19.09	0.4	316	8.340		8.94	
19.0		18.87	0.3	318	8.290		8.25	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.012	0.160					
4.0	0.023	0.180					
7.0	0.018	0.110					
10.0	0.019	0.180					
13.0	0.029	0.150					
16.0	0.023	0.140					
19.0	0.025	0.180					

C-REF-NO 111
 CONS. NO 119
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 19
 TIME 0212

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 116

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.16	0.5	319	8.610		10.40	
4.0		19.63	0.6	314	8.600		10.10	
7.0		19.41	0.6	314	8.510		9.50	
10.0		19.41	0.5	314	8.460		9.18	
13.0		19.25	0.5	313	8.390		8.82	
16.0		19.14	0.4	316	8.360		8.50	
19.0		18.95	0.3	317	8.320		8.23	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.050	0.120					
4.0	0.015	0.130					
7.0	0.020	0.170					
10.0	0.025	0.100					
13.0	0.023	0.110					
16.0	0.026	0.150					
19.0	0.030	0.170					

C-REF-NO 111
 CONS. NO 120
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 19
 TIME 0318

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 117

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		19.91	0.6	320	8.500		10.54	
4.0		19.58	0.7	321	8.580		10.19	
7.0		19.38	0.5	321	8.500		9.37	
10.0		19.38	0.6	318	8.470		9.21	
13.0		19.25	0.4	318	8.430		8.94	
16.0		19.09	0.5	318	8.390		8.56	
19.0		18.81	0.4	317	8.340		8.15	

DEPTH	T NO3	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.150					
4.0	0.019	0.140					
7.0	0.035	0.140					
10.0	0.021	0.120					
13.0	0.036	0.140					
16.0	0.023	0.120					
19.0	0.030	0.230					

C-REF-NO 111
 CONS. NO 121
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 19
 TIME 0410

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 118

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.45	0.4	319	8.570		10.48	
4.0		19.64	0.7	317	8.600		10.54	
7.0		19.46	0.7	317	8.570		9.89	
10.0		19.43	0.6	317	8.510		9.47	
13.0		19.29	0.6	317	8.410		8.99	
16.0		19.13	0.5	317	8.380		8.31	
19.0		18.97	0.5	317	8.360		8.50	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	0.100					
4.0	0.017	0.090					
7.0	0.018	0.100					
10.0	0.020	0.120					
13.0	0.022	0.110					
16.0	0.025	0.150					
19.0	0.028	0.140					

C-REF-NO 111
 CONS. NO 122
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-00N
 LON 081-33-30W

YEAR 1967
 MONTH 09
 DAY 19
 TIME 0510

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 119

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	BOD W	O2 W	R P04
1.0		20.37	0.6	319	8.570		10.42	
4.0		19.68	0.6	317	8.630		10.59	
7.0		19.47	0.7	313	8.560		10.15	
10.0		19.35	0.5	313	8.500		10.12	
13.0		19.18	0.7	317	8.400		8.50	
16.0		19.09	0.5	317	8.360		9.70	
19.0		18.98	0.5	317	8.340		8.44	

DEPTH	T NO3	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	0.110					
4.0	0.016	0.120					
7.0	0.018	0.110					
10.0	0.025	0.130					
13.0	0.025	0.100					
16.0	0.026	0.140					
19.0	0.029						

C-REF-NO 111
CONS. NO 123
COUNTRY 18
INSTITUTE 22

LAT 41-30-30N
LON 081-41-48W

YEAR 1967
MONTH 09
DAY 19
TIME 2355

NO. DEPTHS 02
SOUNDING 0060
BT SLIDE NO 120

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	02 W	R PO4	T NO3
1.0	1.3	20.76		355	8.220	8.61		
4.0		20.70		357	8.220	8.59		

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
4.0						

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	173.0	87.1	32.8	40.800	8.200	1.400	16.600
4.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.016	0.147	0.004	0.004	0.045
4.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.165	0.004	30	33.6	135.7	
4.0							

CRUISE 67 - 113

C-REF-NO 113
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-57N
 LON 079-10-45W

YEAR 1967
 MONTH 10
 DAY 02
 TIME 1746

NO. DEPTHS 07
 SOUNDING 0213
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	4.0	15.84	2.3	319	8.430			9.66
4.0		15.81	2.3	320	8.420			9.53
7.0		15.52	1.2	320	8.390			9.36
10.0		15.50	1.2	321	8.370			9.23
13.0		15.48	0.9	304	8.380			9.23
16.0		15.43	0.9	320	8.360			9.22
19.0		14.88	1.4	320	8.320			8.95

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		100E00	300E00	100E01
4.0	0.033					
7.0	0.063	000E00				
10.0						
13.0	0.029					
16.0	0.016					
19.0	0.018	200E00		400E00	120E01	800E00

C-REF-NO 113
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-33N
 LON 079-02-36W

YEAR 1967
 MONTH 10
 DAY 02
 TIME 1900

NO. DEPTHS 06
 SOUNDING 0174
 BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	5.0	16.34	0.9	319	8.400			9.55
4.0		16.26	1.5	314	8.400			9.63
7.0		16.00	0.9	315	8.370			9.36
10.0		16.00	1.3	316	8.360			9.49
13.0		15.96	2.2	316	8.340			9.26
16.0		15.94	0.9	316	8.350			9.20

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.010	000E00		000E00	600E00	500E00
4.0	0.025					
7.0	0.031	000E00				
10.0	0.017					
13.0	0.057					
16.0	0.012	100E00		000E00	300E00	900E00

C-REF-NO 113
CONS. NO 003
COUNTRY 18
INSTITUTE 22

LAT 42-49-03N
LON 078-55-06W

YEAR 1967
MONTH 10
DAY 02
TIME 2000

NO. DEPTHS 04
SOUNDING 0110
BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	3.0	16.42	2.2	315	8.460		9.64	0.008
4.0		16.39	1.7	314	8.460		9.82	0.012
7.0		15.86	0.9	314	8.450		9.72	0.003
10.0		15.86	1.0	314	8.440		9.39	0.003

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		700E00		200E00	150E01	290E01
4.0						
7.0		000E00				
10.0		000E00		000E00	100E01	120E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	190.0	93.7	25.6	38.800	8.000	1.300	11.600
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.018	0.105	0.005	0.003	0.010
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.001	0.150	0.005	5	25.3	129.8	0.8
4.0							0.9
7.0							1.1
10.0							0.6

C-REF-NO 113
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-42N
 LON 079-07-39W

YEAR 1967
 MONTH 10
 DAY 02
 TIME 2135

NO. DEPTHS 03
 SOUNDING 0174
 BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
16.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	300E00	600E00
7.0		000E00				
16.0		000E00		000E00	500E00	140E01

C-REF-NO 113
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

LAT 42-39-51N
 LON 079-06-42W

YEAR 1967
 MONTH 10
 DAY 02
 TIME 2245

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.3	16.42	1.4	315	8.490			9.83
4.0		16.17	1.5	313	8.480			9.80
7.0		16.04	1.5	313	8.450			9.57
10.0		15.90	1.3	312	8.450			9.41
13.0		15.63	5.3	313	8.420			9.41

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.019	700E00		200E00	600E00	800E00
4.0	0.006					
7.0	0.008	900E00				
10.0	0.008					
13.0	0.018	140E01		240E01	600E01	250E01

C-REF-NO 113
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-24N
 LON 079-14-09W
 YEAR 1967
 MONTH 10
 DAY 03
 TIME 0009

NO. DEPTHS 06
 SOUNDING 0175
 BT SLIDE NO 006

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.51	7.7	309	8.410			9.20
4.0		16.78	8.4	309	8.430			9.52
7.0		16.50	9.3	313	8.410			9.44
10.0		16.20	7.6	312	8.400			9.36
13.0		15.81	3.2	311	8.410			9.50
16.0		15.74	2.9	311	8.400			9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.018	100E01		140E01	180E01	300E01
4.0	0.019					
7.0	0.018	100E00				
10.0	0.017					
13.0	0.013					
16.0	0.018	150E01		200E00	260E01	280E01

C-REF-NO 113
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-24N
 LON 079-18-54W
 YEAR 1967
 MONTH 10
 DAY 03
 TIME 0131

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.87	1.0	314	8.460			9.86
4.0		16.84	1.2	312	8.470			9.86
7.0		15.97	1.8	314	8.450			9.71
10.0		15.86	0.9	314	8.410			9.40
13.0		15.66	1.6	313	8.360			9.28
16.0		15.39	2.7	314	8.350			9.26

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.020	400E00		000E00	200E00	110E01
4.0	0.014					
7.0	0.019	110E01				
10.0	0.013					
13.0	0.019	100E01		210E01	420E01	410E01
16.0	0.024					

C-REF-NO 113
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

LAT 42-44-27N
 LON 079-19-57W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 0330

NO. DEPTHS 08
 SOUNDING 0265
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.42	1.9	321	8.170			9.72
4.0		16.35	1.5	321	8.290			9.63
7.0		16.34	1.6	319	8.320			9.61
10.0		16.13	1.6	320	8.340			9.53
13.0		15.95	1.7	321	8.330			9.22
16.0		15.95	1.3	321	8.350			9.31
19.0		15.92	1.3	323	8.330			9.11
22.0		15.77	1.6	325	8.320			9.17

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.009	000E00		100E00	400E00	500E00
4.0	0.010					
7.0	0.009	000E00				
10.0	0.014					
13.0	0.010					
16.0	0.009					
19.0	0.013					
22.0	0.035	100E00		000E00	300E00	400E00

C-REF-NO 113
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

LAT 42-47-51N
 LON 079-29-06W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 0537

NO. DEPTHS 07
 SOUNDING 0201
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		15.17	1.4	339	8.340			9.86
4.0		15.12	1.4	340	8.340			9.72
7.0		15.05	1.5	340	8.350			9.74
10.0		14.93	1.4	340	8.330			9.75
13.0		14.67	1.5	339	8.300			9.64
16.0		14.24	1.5	340	8.230			9.25
19.0		14.18	2.0	339	8.200			9.09

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.019	100E00		000E00	300E00	120E01
4.0	0.020					
7.0	0.019	000E00				
10.0	0.020					
13.0	0.022					
16.0	0.029					
19.0	0.031	100E00		000E00	700E00	800E00

C-REF-NO 113
 CONS. NO 010
 COUNTRY 18
 INSTITUTE 22

LAT 42-50-15N
 LON 079-34-54W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 0642

NO. DEPTHS 05
 SOUNDING 0119
 BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0		14.08	1.9	324	8.150		9.88	0.045
4.0		14.04	1.2	326	8.230		9.90	0.044
7.0		13.99	1.5	324	8.250		9.90	0.042
9.0		14.09	1.3	324	8.250		9.93	0.060
12.0		14.02	1.5	325	8.270		9.93	0.040

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
4.0						
7.0						
9.0						
12.0						

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	197.0	99.5	27.4	40.800	8.400	1.400	11.800
4.0							
7.0							
9.0							
12.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.025	0.490	0.003	0.002	0.026
4.0								
7.0								
9.0								
12.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.120	0.004	5	25.4	136.5	
4.0							
7.0							
9.0							
12.0							

C-REF-NO 113
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-15N
 LON 079-37-27W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 0749

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		14.38	1.0	320	8.240			9.53
4.0		14.34	0.9	317	8.240			9.55
7.0		14.31	0.9	317	8.240			9.57
10.0		14.33	1.9	318	8.220			9.60
13.0		14.33	1.7	318	8.240			9.57
16.0		14.13	2.0	318	8.190			9.17

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.025	000E00	000E00	000E00	130E01	600E00
4.0	0.024					
7.0	0.024	000E00				
10.0	0.024					
13.0	0.025					
16.0	0.031	000E00	000E00	000E00	140E01	180E01

C-REF-NO 113
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-09N
 LON 079-47-42W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 0856

NO. DEPTHS 03
 SOUNDING 0219
 BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
13.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00	000E00	000E00	140E01	730E01
7.0		000E00				
13.0		000E00	000E00	000E00	310E01	140E01

C-REF-NO 113
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 42-40-27N
 LON 079-36-15W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 1028

NO. DEPTHS 09
 SOUNDING 0293
 BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.83	1.2	318	8.320			10.10
4.0		15.79	1.1	317	8.310			9.31
7.0		15.74	1.5	318	8.300			9.20
10.0		15.59	1.7	319	8.290			9.33
13.0		15.35	1.5	318	8.300			9.31
16.0		15.14	1.3	317	8.290			9.20
19.0		14.62	1.8	316	8.240			9.28
22.0		14.54	1.4	309	8.230			9.17
25.0		14.41	1.3	315	8.220			9.14

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.020	000E00	000E00	300E00	900E00	700E00
4.0	0.021					
7.0	0.017	300E00				
10.0	0.023					
13.0	0.024					
16.0	0.027					
19.0	0.030					
22.0	0.038	000E00				
25.0	0.040	000E00	000E00	100E00	800E00	300E00

C-REF-NO 113
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 42-51-30N
 LON 079-34-36W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 1242

NO. DEPTHS 03
 SOUNDING 0073
 BT SLIDE NO 0

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0			20.0	577	8.080		9.67	
4.0			21.0	589	8.050		9.58	
7.0			49.0	601	7.890		8.31	

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0						
4.0						
7.0						

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	386.0	182.0	94.8	80.000	19.200	2.800	14.800
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.024	0.730	0.004	0.004	0.085
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.005	0.650	0.040	30	22.8	278.8	
4.0							
7.0							

C-REF-NO 113
CONS. NO 015
COUNTRY 18
INSTITUTE 22

LAT 42-29-57N
LON 079-37-06W

YEAR 1967
MONTH 10
DAY 03
TIME 1524

NO. DEPTHS 13
SOUNDING 0457
BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	6.0	15.74	1.3	351	8.320			9.40
4.0		15.68	1.4	354	8.330			9.39
7.0		15.66	1.2	353	8.340			9.37
10.0		15.68	1.3	350	8.340			9.39
13.0		15.67	1.5	354	8.350			9.40
16.0		15.63	1.3	353	8.350			9.34
19.0		15.60	1.4	351	8.340			9.39
22.0		15.57	1.4	357	8.340			9.23
25.0		15.51	1.6	356	8.330			9.26
28.0		15.30	1.6	355	8.310			9.39
31.0		6.54	1.7	360	7.910			9.33
37.0		5.12	2.2	360	7.780			8.28
40.0			2.1	359	7.730			8.25

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.023	000E00		000E00	600E00	100E00
4.0	0.020					
7.0	0.011	000E00				
10.0	0.018					
13.0						
16.0						
19.0						
22.0	0.017	000E00				
25.0	0.016					
28.0	0.018					
31.0						
37.0						
40.0		000E00		000E00	220E01	400E00

C-REF-NO 113
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-12N
 LON 079-39-00W

YEAR 1967
 MONTH 10
 DAY 03
 TIME 2314

NO. DEPTHS 05
 SOUNDING 0165
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.50	1.0	314	8.370			9.85
4.0		16.46	0.8	315	8.410			9.33
7.0		16.44	0.9	315	8.440			9.94
10.0		16.47	0.7	315	8.450			9.88
13.0		16.39	1.2	315	8.420			9.75

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.015	200E00	200E00	000E00		
4.0	0.011					
7.0	0.012	100E00				
10.0	0.009					
13.0	0.013	300E00	200E00	000E00	400E00	500E00

C-REF-NO 113
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-00N
 LON 079-46-27W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 0029

NO. DEPTHS 11
 SOUNDING 0356
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.31	1.1	302	8.390			9.74
4.0		16.27	1.1	314	8.390			9.66
7.0		16.26	1.1	314	8.410			9.64
10.0		16.29	0.7	315	8.410			9.64
13.0		16.27	0.9	315	8.410			9.56
16.0		16.24	1.3	315	8.400			9.53
19.0		16.16	1.6	313	8.280			9.42
22.0		16.15	1.5	315	8.230			9.42
25.0		14.72	1.5	317	8.230			8.82
28.0		9.51	3.3	319	7.760			8.01
31.0		6.56	5.8	321	7.640			7.68

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	000E00		000E00	110E01	500E00
4.0	0.010					
7.0	0.011	000E00				
10.0	0.007					
13.0	0.011					
16.0	0.012					
19.0	0.014					
22.0	0.017	000E00				
25.0	0.032					
28.0	0.145					
31.0	0.190	100E00		100E00	170E01	130E01

C-REF-NO 113
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-42N
 LON 079-54-45W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 0209

NO. DEPTHS 11
 SOUNDING 0366
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.31	1.5	320	8.300			9.52
4.0		16.27	1.0	316	8.350			9.52
7.0		16.24	1.1	315	8.360			9.52
10.0		16.29	1.5	315	8.350			9.50
13.0		16.22	1.2	316	8.350			9.42
16.0		16.16	1.3	314	8.370			9.37
19.0		16.03	1.0	314	8.350			9.29
22.0		15.98	1.0	315	8.350			9.25
25.0		15.94	1.4	315	8.340			9.21
28.0		10.29	1.7	324	7.880			8.25
31.0		5.77	3.5	324	7.670			8.01

DEPTH	T NO3	MF COL	MF FCU	MF STR	SPC 20	SPC 35
1.0	0.013	000E00		000E00	290E01	200E01
4.0	0.018					
7.0	0.012	000E00				
10.0	0.010					
13.0	0.012					
16.0	0.009					
19.0	0.010					
22.0	0.013					
25.0	0.016	000E00				
28.0	0.095					
31.0	0.100	000E00		000E00	280E01	420E01

C-REF-NO 113
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-30N
 LON 079-59-06W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 0336

NO. DEPTHS 06
 SOUNDING 0191
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.33	1.3	301	8.320			9.74
4.0		16.29	1.4	308	8.370			9.80
7.0		16.28	1.3	305	8.400			9.78
10.0		16.16	1.4	300	8.380			9.66
13.0		16.04	1.5	303	8.360			9.45
16.0		16.01	2.0	300	8.350			9.50

DEPTH	T NO3	MF COL	MF FCU	MF STR	SPC 20	SPC 35
1.0	0.010	000E00		100E00	120E01	400E00
4.0	0.009					
7.0	0.010	000E00				
10.0	0.017					
13.0	0.020					
16.0	0.007	000E00		700E00	220E01	100E00

C-REF-NO 113
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 42-11-03N
LON 080-03-03W

YEAR 1967
MONTH 10
DAY 04
TIME 0437

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0		16.09	1.7	316	8.450		10.18	0.001
4.0		16.07	1.6	318	8.450		10.41	0.003
7.0		16.01	1.7	315	8.470		10.11	0.002
10.0		16.02	1.8	315	8.450		10.10	0.001

DEPTH	R SID2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		100E00	000E00	500E00	200E02	120E02
4.0						
7.0		000E00				
10.0		300E00	000E00	000E00	180E02	800E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	192.0	93.7	25.1	38.800	8.000	1.200	11.600
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.020	0.045	0.002	0.002	0.002
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.001	0.150	0.008	5	25.5	129.8	0.6
4.0							0.9
7.0							0.9
10.0							0.8

C-REF-NO 113
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 42-08-03N
LON 080-12-06W

YEAR 1967
MONTH 10
DAY 04
TIME 0606

NO. DEPTHS 02
SOUNDING 0091
BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00	000E00	000E00	260E01	280E01
7.0		200E00	000E00	000E00	180E01	260E01

C-REF-NO 113
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 42-06-27N
LON 080-16-30W

YEAR 1967
MONTH 10
DAY 04
TIME 0640

NO. DEPTHS 02
SOUNDING 0110
BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		200E00	000E00	000E00	340E01	200E01
7.0		300E00	200E00	400E00	320E01	320E01

C-REF-NO 113
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-39N
 LON 080-07-30W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 0803

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		15.97	1.2	314	8.290			9.41
4.0		15.96	1.4	312	8.280			9.47
7.0		15.92	1.1	312	8.300			9.49
10.0		15.94	1.3	314	8.300			9.39
13.0		15.80	1.3	314	8.270			9.17
16.0		15.72	1.2	314	8.250			9.12

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	000E00		000E00	300E01	220E01
4.0	0.014					
7.0	0.015	000E00				
10.0	0.012					
13.0	0.012					
16.0	0.015	000E00		000E00	240E01	160E01

C-REF-NO 113
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 42-20-03N
 LON 080-03-03W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 0937

NO. DEPTHS 10
 SOUNDING 0329
 BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.16	0.6	313	8.410			9.53
4.0		16.15	0.7	315	8.410			9.58
7.0		16.11	0.9	315	8.420			9.60
10.0		16.16	3.2	314	8.420			9.53
13.0		16.15	1.5	315	8.410			9.57
16.0		16.04	0.6	311	8.390			9.45
19.0		15.90	0.9	315	8.380			9.34
22.0		15.61	0.7	315	8.340			9.14
25.0		15.53	1.2	315	8.340			9.17
28.0		15.41	1.2	315	8.330			9.12

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.011	000E00		000E00	190E01	150E01
4.0	0.011					
7.0	0.012	000E00				
10.0	0.014					
13.0	0.012					
16.0	0.015					
19.0	0.016					
22.0	0.019	000E00				
25.0	0.019					
28.0	0.023	000E00		000E00	100E01	160E01

C-REF-NO 113
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 42-31-03N
LON 079-53-30W

YEAR 1967
MONTH 10
DAY 04
TIME 1147

NO. DEPTHS 16
SOUNDING 0640
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0		15.51	1.1	321	8.350	92.0	9.83	0.023
4.0		15.48	1.2	323	8.340	94.5	9.72	0.026
7.0		15.47	1.2	319	8.300	95.0	9.99	0.024
10.0		15.40	1.2	317	8.340	94.2	9.61	0.029
13.0		15.37	1.3	318	8.340	94.6	9.60	0.025
16.0		15.36	1.1	319	8.340	95.7	9.52	0.030
19.0		15.33	1.2	320	8.330	95.0	9.44	0.027
22.0		15.28	1.2	318	8.310	95.5	9.39	0.027
25.0		14.91	1.3	319	8.280		9.26	0.040
28.0		14.80	1.2	320	8.250	95.5	9.20	0.039
31.0		13.54	1.2	321	8.190	96.2	8.95	0.053
37.0		7.81	1.4	323	7.920	97.5	8.50	0.150
43.0		5.32	1.3	322	7.800	97.0	8.45	0.175
49.0		5.26	1.4	323	7.770	97.0	8.42	0.175
55.0		5.24	1.8	324	7.720	97.2	8.41	0.185
61.0		5.17	2.4	323	7.730	98.0	8.31	0.195

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		100E00	870E01	300E00
4.0						
7.0		000F00				
10.0						
13.0						
16.0						
19.0						
22.0		000E00				
25.0						
28.0						
31.0						
37.0						
43.0						
49.0						
55.0						
61.0		000E00		000E00	780E01	700E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	189.0	96.1	24.7	40.000	8.200	1.300	11.200
4.0							
7.0							
10.0	189.0	95.2	24.4	40.000	8.100	1.300	11.400
13.0							
16.0							
19.0	194.0	98.1	24.8	40.100	8.000	1.300	11.600
22.0							
25.0							
28.0	191.0	97.6	28.1	40.100	8.000	1.300	11.600
31.0							
37.0	195.0	97.1	25.3	40.000	8.100	1.300	11.400
43.0							
49.0							
55.0	193.0	95.2	25.1	40.000	8.100	1.300	11.400
61.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.024	0.030	0.003	0.002	0.085
4.0								
7.0								
10.0	0.000	0.000	0.000	0.006	0.038	0.003	0.001	0.018
13.0								
16.0								
19.0	0.000	0.000	0.000	0.034	0.054	0.002	0.003	0.024
22.0								
25.0								
28.0	0.000	0.000	0.000	0.023	0.119	0.002	0.002	0.012
31.0								
37.0	0.000	0.000	0.000	0.016	0.052	0.002	0.002	0.010
43.0								
49.0								
55.0	0.000	0.000	0.000	0.011	0.022	0.002	0.003	0.002
61.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.003	0.170	0.002	5	25.0	133.7	0.7
4.0							1.3
7.0							0.9
10.0	0.001	0.160	0.004	5	25.2	133.2	0.9
13.0							1.1
16.0							1.0
19.0	0.001	0.160	0.002	5	25.8	133.1	0.9
22.0							1.0
25.0							0.7
28.0	0.001	0.160	0.004	5	25.6	133.1	0.8
31.0							1.3
37.0	0.001	0.165	0.005	5	25.0	133.2	0.3
43.0							0.5
49.0							0.2
55.0	0.001	0.160	0.000	5	25.2	133.2	0.6
61.0							1.9

C-REF-NO 113
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 42-41-39N
 LON 079-52-03W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 1550

NO. DEPTHS 11
 SOUNDING 0338
 BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.8	15.37	1.4	323	8.270	83.7		9.88
4.0		15.38	1.4	319	8.300	85.7		9.22
7.0		15.16	1.3	319	8.310	86.0		9.86
10.0		15.09	1.4	309	8.290	86.0		9.72
13.0		14.90	1.3	315	8.260	86.0		9.45
16.0		14.62	1.4	318	8.250	86.0		9.33
19.0		14.15	1.4	310	8.260	86.6		9.96
22.0		13.68	1.3	322	8.180	87.5		9.14
25.0		13.32	1.5	319	8.150	87.0		8.99
28.0		12.17	1.4	314	8.050	87.0		8.77
31.0		8.61	3.1	325	7.720	100.0		5.91

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.026	000E00		000E00	140E01	190E01
4.0	0.025					
7.0	0.025	000E00				
10.0	0.028					
13.0	0.036					
16.0	0.037					
19.0	0.043					
22.0	0.050	000E00				
25.0	0.056					
28.0	0.072					
31.0	0.100	000E00		000E00	300E01	200E01

C-REF-NO 113
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-18N
 LON 079-55-57W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 1702

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.5	13.81	1.8	328	8.210	97.5		10.12
4.0		13.94	1.8	326	8.250	98.5		10.00
7.0		13.53	1.9	329	8.250	98.5		9.96
10.0		13.51	2.3	328	8.240	95.5		9.96

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.038	000E00		000E00	140E01	220E01
4.0	0.035					
7.0	0.032	200E00				
10.0	0.027	000E00		000E00	120E01	190E01

C-REF-NO 113
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-12N
 LON 080-10-09W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 1841

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	3.5	13.42	1.1	318	8.390	94.6		11.05
4.0		13.38	1.8	317	8.390	95.4		11.06
7.0		13.24	1.8	317	8.390	95.5		10.98

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016	000E00		000E00	120E01	110E01
4.0	0.015					
7.0	0.017	000E00		000E00	800E00	170E01

C-REF-NO 113
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 42-34-39N
 LON 080-01-15W

YEAR 1967
 MONTH 10
 DAY 04
 TIME 2023

NO. DEPTHS 13
 SOUNDING 0457
 BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	2.3	14.53	2.6	317	8.370			10.28
4.0		14.49	2.8	317	8.380			9.91
7.0		14.32	3.1	316	8.360			10.07
10.0		13.38	3.8	316	8.350			9.58
13.0		11.65	3.8	320	8.060			9.00
16.0		11.09	5.3	320	8.010			8.89
19.0		10.01	5.9	322	7.930			8.81
22.0		8.49	4.6	323	7.850			8.54
25.0		7.79	3.2	324	7.810			8.27
28.0		6.92	2.2	316	7.760			8.19
31.0		5.90	1.8	323	7.730			8.35
37.0		5.76	4.9	326	7.680			7.81
43.0		5.68	2.6	326	7.660			7.78

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.030	000E00		000E00	110E01	150E01
4.0	0.033					
7.0	0.037	000E00				
10.0	0.048					
13.0	0.080					
16.0	0.089					
19.0	0.099					
22.0	0.117	100E00				
25.0	0.132					
28.0	0.148					
31.0	0.170					
37.0	0.190					
43.0	0.200	100E00		200E00	130E01	220E01

C-REF-NO 113
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 42-30-45N
 LON 080-09-45W
 YEAR 1967
 MONTH 10
 DAY 04
 TIME 2200

NO. DEPTHS 06
 SOUNDING 0384
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.4	16.32	2.3	314	8.420			10.26
4.0		16.31	2.2	314	8.450			10.24
7.0		16.28	2.3	314	8.450			10.31
10.0		15.97	2.4	315	8.400			9.93
13.0		15.81	1.4	315	8.340			9.55
16.0		14.63	1.4	316	8.280			9.10

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.015	000E00		000E00	300E01	180E01
4.0	0.013					
7.0	0.016	000E00				
10.0	0.018					
13.0	0.024					
16.0	0.034	100E00		000E00	370E01	190E01

C-REF-NO 113
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 42-29-36N
 LON 080-18-12W
 YEAR 1967
 MONTH 10
 DAY 04
 TIME 2314

NO. DEPTHS 06
 SOUNDING 0201
 BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.0	16.58	1.0	312	8.430			9.99
4.0		16.51	1.9	312	8.430			9.98
7.0		16.45	1.1	313	8.430			9.93
10.0		16.36	1.8	313	8.400			9.79
13.0		16.27	2.0	310	8.350	91.0		9.50
16.0		13.89	2.6	316	8.160	94.3		8.47

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.013	000E00			230E01	170E01
4.0	0.012					
7.0	0.012	000E00				
10.0	0.030					
13.0	0.015					
16.0	0.050	000E00				780E01

C-REF-NO 113
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 42-21-57N
 LON 080-18-09W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0033

NO. DEPTHS 08
 SOUNDING 0256
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.54	1.7	313	8.490	92.0		10.42
4.0		16.55	0.9	312	8.490	94.0		10.42
7.0		16.52	1.2	313	8.510	94.0		10.44
10.0		16.34	2.0	313	8.460	95.0		10.29
13.0		16.06	1.5	313	8.410	95.2		9.67
16.0		15.84	1.2	314	8.350	95.2		9.52
19.0		15.13	1.3	317	8.280	95.5		9.33
22.0		12.80	2.0	322	8.090	97.4		8.10

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.005	000E00		000E00	190E01	150E01
4.0	0.004					
7.0	0.004	000E00				
10.0	0.004					
13.0	0.011					
16.0	0.017					
19.0	0.031					
22.0	0.059	000E00		000E00	260E01	260E01

C-REF-NO 113
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-15N
 LON 080-27-42W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0226

NO. DEPTHS 07
 SOUNDING 0228
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.60	1.1	317	8.500	92.0		10.50
4.0		16.61	1.1	314	8.530	93.5		10.50
7.0		16.37	1.2	314	8.520	94.0		10.44
10.0		15.81	1.2	315	8.420	93.7		9.80
13.0		15.77	1.1	316	8.380	94.0		9.64
16.0		15.58	1.5	317	8.320	94.0		9.36
19.0		15.43	1.5	317	8.290	94.5		9.04

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.006	000E00		000E00	860E01	450E01
4.0	0.003					
7.0	0.008	000E00				
10.0	0.009					
13.0	0.013					
16.0	0.021					
19.0	0.025	000E00		000E00	190E01	160E01

C-REF-NO 113
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 42-01-54N
 LON 080-28-48W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0424

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.83	1.5	323	8.490	92.2		10.49
4.0		16.83	2.0	326	8.530	93.6		10.51
7.0		16.51	2.0	326	8.530	93.0		10.51
10.0		16.22	1.5	320	8.500	93.0		10.05

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	000E00		000E00	240E01	170E01
4.0	0.001					
7.0	0.001	000E00				
10.0	0.001	000E00		000E00	600E01	320E01

C-REF-NO 113
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-03N
 LON 080-35-51W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0522

NO. DEPTHS 05
 SOUNDING 0174
 BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.65	0.9	313	8.490	93.8		10.23
4.0		16.66	1.2	310	8.500	94.2		10.26
7.0		16.39	1.4	313	8.470	94.2		10.36
10.0		16.32	1.2	311	8.420	93.7		9.64
13.0		16.18	1.5	313	8.380	94.5		9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	000E00		000E00	370E01	900E00
4.0	0.001					
7.0	0.001	000E00				
10.0	0.004					
13.0	0.008	300E00		000E00	400E01	100E01

C-REF-NO 113
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-30N
 LON 080-41-30W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0635

NO. DEPTHS 05
 SOUNDING 0192
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.87	1.7	316	8.530			10.24
4.0		16.88	1.1	312	8.530			10.34
7.0		16.70	1.1	318	8.540			10.37
10.0		16.06	1.5	318	8.420			9.70
13.0		15.65	1.8	324	8.310			9.23

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.001	700E00		000E00	320E01	160E01
4.0	0.001					
7.0	0.001	100E01				
10.0	0.003					
13.0	0.012	240E01		000E00	110E02	550E01

C-REF-NO 113
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 41-58-09N
 LON 080-57-15W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0813

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.75	1.1	313	8.370			9.85
4.0		16.74	0.8	313	8.370			9.85
7.0		16.70	1.0	313	8.390			9.85
10.0		16.53	1.0	314	8.380			9.74
13.0		16.09	1.2	320	8.320			9.26
16.0		15.84	0.9	321	8.270			8.92
19.0		15.82	1.5	320	8.220			8.63

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.014	300E00		000E00	310E01	230E01
4.0	0.015					
7.0	0.015	300E00				
10.0	0.010					
13.0	0.012					
16.0	0.018					
19.0	0.017	300E00		000E00	610E01	380E01

C-REF-NO 113
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-15N
 LON 080-52-51W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 0915

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.47	1.2	312	8.270			9.42
4.0		16.46	1.1	312	8.270			9.34
7.0		16.45	1.2	314	8.270			9.34
10.0		16.48	0.7	311	8.270			9.30
13.0		16.44	0.9	313	8.260			9.25
16.0		16.32	0.6	313	8.240			9.11
19.0		16.12	1.1	312	8.200			8.82

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	700E00		000E00	120E02	150E01
4.0	0.028					
7.0	0.025	400E00				
10.0	0.027					
13.0	0.025					
16.0	0.028					
19.0	0.031	100E01		000E00	360E01	130E01

C-REF-NO 113
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-00N
 LON 080-44-30W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1055

NO. DEPTHS 06
 SOUNDING 0219
 BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.35	1.3	300	8.280			9.42
4.0		16.35	1.2	314	8.280			9.39
7.0		16.33	1.6	315	8.280			9.23
10.0		16.37	0.8	315	8.270			9.44
13.0		16.37	1.1	315	8.290			9.36
16.0		16.35	1.1	315	8.280			9.20

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.025	000E00		000E00	260E01	200E01
4.0	0.032					
7.0	0.025	230E01				
10.0	0.024					
13.0	0.025					
16.0	0.026	000E00		200E00	140E02	210E01

C-REF-NO 113
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-45N
 LON 080-41-18W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1333

NO. DEPTHS 05
 SOUNDING 0165
 BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.2	15.91	2.9	320	8.280			9.85
4.0		15.93	3.3	316	8.310			9.86
7.0		15.90	3.0	298	8.310			9.83
10.0		15.90	3.4	314	8.300			9.90
13.0		15.87	2.7	315	8.270			9.67

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.050	100E00		000E00	190E01	260E01
4.0	0.047					
7.0	0.048	000E00				
10.0	0.046					
13.0	0.047	000E00		000E00	700E00	150E01

C-REF-NO 113
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 42-36-42N
 LON 080-50-12W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1501

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.0	16.02	3.0	299	8.360	90.5		10.17
4.0		16.01	3.0	312	8.370	93.7		10.25
7.0		15.90	2.4	312	8.360	92.5		10.12
10.0		15.77	2.8	315	8.320	93.2		9.96
13.0		14.80	13.0	311	8.080	97.0		7.93

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.049	000E00		000E00	130E01	190E01
4.0	0.047					
7.0	0.045	000E00				
10.0	0.048					
13.0	0.072	100E00		100E00	510E01	240E01

C-REF-NO 113
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 42-37-27N
 LON 081-05-39W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1644

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.0	16.41	3.2	318	8.440	91.5		11.61
4.0		15.79	3.1	322	8.430	93.8		11.20
7.0		15.45	2.9	321	8.330	93.8		10.35
10.0		15.22	2.7	319	8.190	94.5		9.45

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.039	000E00		000E00	340E01	100E01
4.0	0.050					
7.0	0.065	000E00				
10.0	0.071	000E00		000E00	230E01	190E01

C-REF-NO 113
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 42-38-30N
 LON 081-11-33W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1729

NO. DEPTHS 04
 SOUNDING 0101
 BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.0	15.28	12.0	315	8.140	93.5		9.94
4.0		15.39	13.0	315	8.200	94.5		9.96
7.0		14.87	13.0	317	8.160	95.5		9.56
10.0		14.45	35.0	319	8.060	95.5		8.57

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.072					
4.0	0.071					
7.0	0.074					
10.0	0.090					

C-REF-NO 113
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 42-24-39N
 LON 081-06-45W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 1919

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	5.0	16.70	1.2	310	7.910	93.3		10.31
4.0		16.82	1.5	314	8.210	93.0		10.25
7.0		16.20	2.6	313	8.210	94.5		9.99
10.0		16.19	1.7	311	8.210	94.5		9.61
13.0		16.15	1.6	313	8.210	92.5		9.53
16.0		16.04	1.7	312	8.210	94.0		9.38
19.0		15.83	1.9	314	8.110	93.7		8.66

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	000E00		200E00	470E01	210E01
4.0	0.023					
7.0	0.023	000E00				
10.0	0.027					
13.0	0.026					
16.0	0.025					
19.0	0.027	000E00		000E00	320E01	110E01

C-REF-NO 113
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-30N
 LON 081-08-51W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 2151

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	16.68	1.5	320	8.210			9.80
4.0		16.69	1.7	318	8.270			9.77
7.0		16.61	1.5	319	8.270			9.74
10.0		16.45	1.6	318	8.240			9.45
13.0		16.38	1.7	320	8.200			9.20
16.0		16.35	1.7	317	8.180			9.17
19.0		16.16	1.3	319	8.140			8.74

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	200E00		000E00	460E01	180E01
4.0	0.033					
7.0	0.029	400E00				
10.0	0.031					
13.0	0.031					
16.0	0.026					
19.0	0.028	000E00		000E00	260E01	160E01

C-REF-NO 113
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-42N
 LON 081-14-39W

YEAR 1967
 MONTH 10
 DAY 05
 TIME 2358

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.89	2.1	331	8.370			10.10
4.0		16.92	2.0	332	8.400			10.10
7.0		16.90	1.8	333	8.410			10.09
10.0		16.86	2.1	332	8.390			9.98
13.0		16.71	2.1	342	8.310			9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.055	580E01		400E00	720E01	600E01
4.0	0.055					
7.0	0.054	300E01				
10.0	0.056					
13.0	0.052	200E00		000E00	110E02	860E01

C-REF-NO 113
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 41-58-54N
 LON 081-22-24W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 0123

NO. DEPTHS 06
 SOUNDING 0192
 BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.75	1.2	323	8.340			9.74
4.0		16.77	1.6	323	8.330			9.75
7.0		16.74	1.4	324	8.330			9.74
10.0		16.77	1.7	324	8.310			9.75
13.0		16.76	1.7	330	8.320			9.67
16.0		15.96	3.8	321	8.110			8.23

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.033	400E00		100E00	200E01	360E01
4.0	0.032					
7.0	0.031	000E00				
10.0	0.030					
13.0	0.032					
16.0	0.067	000E00		000E00	500E01	460E01

C-REF-NO 113
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-45N
 LON 081-33-39W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 0313

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0		15.95	1.2	316	8.100	91.0	9.33	0.030
4.0		15.98	1.2	319	8.120	92.3	9.23	0.036
7.0		15.93	1.3	316	8.120	93.0	9.86	0.039
10.0		15.96	1.1	313	8.130	93.5	9.39	0.038
13.0		15.88	1.2	315	8.120	93.5	9.15	0.049
16.0		15.67	1.0	316	8.070	94.0	8.76	0.035
19.0		15.49	1.2	312	7.990	95.0	8.21	0.041

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		200E00		000E00	230E01	150E01
4.0						
7.0		200E00				
10.0						
13.0						
16.0						
19.0		700E00		100E00	200E01	240E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	192.0	94.2	25.1	40.600	8.300	1.200	11.400
4.0							
7.0							
10.0	188.0	94.3	24.3	40.400	8.200	1.200	11.000
13.0							
16.0							
19.0	188.0	94.3	24.4	40.400	8.200	1.200	11.200

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.024	0.120	0.001	0.002	0.080
4.0								
7.0								
10.0	0.000	0.000	0.000	0.023	0.019	0.002	0.002	0.042
13.0								
16.0								
19.0	0.000	0.000	0.000	0.035	0.024	0.002	0.002	0.050

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.001	0.145	0.000	5	25.2	135.6	1.0
4.0							1.0
7.0							1.0
10.0	0.001	0.160	0.006	5	25.0	134.7	0.8
13.0							1.0
16.0							0.7
19.0	0.001	0.150	0.011	5	25.0	134.7	0.6

C-REF-NO 113
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-30N
 LON 081-31-57W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 0645

NO. DEPTHS 07
 SOUNDING 0228
 BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.05	1.4	319	8.040	94.5		9.47
4.0		16.08	1.8	320	8.130	95.0		9.56
7.0		16.04	1.4	318	8.190	95.8		9.48
10.0		16.08	1.7	313	8.210	96.0		9.53
13.0		16.07	1.4	320	8.240	96.2		9.55
16.0		16.06	1.3	316	8.230	96.5		9.44
19.0		16.03	1.3	313	8.230	97.5		9.41

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	100E00		000E00	170E01	150E01
4.0	0.029					
7.0	0.021	000E00				
10.0	0.022					
13.0	0.019					
16.0	0.023					
19.0	0.024	000E00		000E00	210E01	240E01

C-REF-NO 113
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-06N
 LON 081-28-06W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 0912

NO. DEPTHS 04
 SOUNDING 0146
 BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.38	3.2	321	8.170			9.99
4.0		15.38	3.2	320	8.240			9.99
7.0		15.38	3.1	319	8.270			9.96
10.0		15.41	3.0	318	8.280			9.93

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.036					
4.0	0.037					
7.0	0.031					
10.0	0.032					

C-REF-NO 113
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 42-26-09N
 LON 081-39-24W
 YEAR 1967
 MONTH 10
 DAY 06
 TIME 1054

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.09	1.5	315	8.160			9.17
4.0		16.11	1.7	313	8.140			9.12
7.0		16.08	1.8	320	8.160			9.09
10.0		16.12	1.8	315	8.170			9.15

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	200E00		200E00	210E01	310E01
4.0	0.035					
7.0	0.038	000E00				
10.0	0.038	000E00		000E00	460E01	480E01

C-REF-NO 113
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-54N
 LON 081-48-30W
 YEAR 1967
 MONTH 10
 DAY 06
 TIME 1239

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.5	16.05	1.8	312	8.240			9.45
4.0		16.05	1.7	316	8.240			9.45
7.0		16.02	2.0	300	8.240			9.45
10.0		16.06	2.3	315	8.260			9.44
13.0		16.07	2.0	306	8.260			9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.026					
4.0	0.026					
7.0	0.026					
10.0	0.024					
13.0	0.023					

C-REF-NO 113
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-27N
 LON 081-49-51W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 1542

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	16.18	1.1	317	8.130			9.25
4.0		16.22	1.1	315	8.170			9.25
7.0		16.20	1.0	316	8.190			9.28
10.0		16.22	1.2	315	8.200			9.31
13.0		16.22	1.1	316	8.190			9.25
16.0		16.22	1.2	314	8.190			9.26
19.0		16.23	1.4	315	8.210			9.28

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.025	000E00		100E00	350E01	
4.0	0.025					
7.0	0.024	000E00				
10.0	0.025					
13.0	0.025					
16.0	0.026					
19.0	0.024	000E00		000E00		

C-REF-NO 113
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-00N
 LON 081-42-27W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 1744

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	16.34	1.7	323	8.050			9.14
4.0		16.35	1.7	322	8.110			9.23
7.0		16.33	1.7	322	8.140			9.15
10.0		16.37	1.6	319	8.150			9.15
13.0		16.36	1.7	318	8.150			9.17
16.0		16.35	1.7	318	8.160			9.17
19.0		16.35	1.6	320	8.170			9.17

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.030	100E00		100E00		
4.0	0.030					
7.0	0.037	100E00				
10.0	0.049					
13.0	0.033					
16.0	0.033					
19.0	0.030	000E00		000E00		

C-REF-NO 113
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-03N
 LON 081-26-45W
 YEAR 1967
 MONTH 10
 DAY 06
 TIME 1925

NO. DEPTHS 05
 SCUNDING 0146
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	16.62	4.0	330	8.120			9.93
4.0		16.65	3.8	322	8.270			9.88
7.0		16.62	4.0	323	8.300			9.77
10.0		16.65	3.1	324	8.340			9.88
13.0		16.65	3.2	324	8.350			9.98

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.062	240E01	200E00	000E00	700E01	
4.0	0.060					
7.0	0.057	100E01		000E00		
10.0	0.058					
13.0	0.061	120E01	400E00	000E00		

C-REF-NO 113
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-12N
 LON 081-35-06W
 YEAR 1967
 MONTH 10
 DAY 06
 TIME 2040

NO. DEPTHS 05
 SCUNDING 0146
 BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.9	16.39	1.8	311	8.330			9.71
4.0		16.40	1.9	323	8.350			9.66
7.0		16.26	1.8	326	8.370			9.57
10.0		16.34	3.2	328	8.370			9.57
13.0		16.44	4.8	326	8.380			9.55

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.075	300E01	400E00	000E00		
4.0	0.075					
7.0	0.081	230E01		000E00		
10.0	0.073					
13.0	0.082	240E01	600E00	000E00		

C-REF-NO 113
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-06N
 LON 081-42-42W

YEAR 1967
 MONTH 10
 DAY 06
 TIME 2216

NO. DEPTHS 03
 SOUNDING 0820
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	0.3		24.0	657	7.650		6.95	0.200
4.0			14.0	539	7.610		6.34	0.220
7.0			11.0	520	7.670		5.92	0.240

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		120E04	350E03	370E02		
4.0						
7.0		600E03	130E02	180E02		

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	450.0	73.5	93.0	54.800	10.600	5.300	60.000
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.024	2.500	0.007	0.008	0.300
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.036	0.265	0.027	20	108.0	180.5	2.5
4.0							1.8
7.0							2.4

C-REF-NO 113
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 41-39-33N
LON 081-40-45W
YEAR 1967
MONTH 10
DAY 06
TIME 2327

NO. DEPTHS 06
SOUNDING 0183
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.44	2.1	322	8.400			9.44
4.0		16.46	2.2	320	8.390			9.43
7.0		16.42	2.1	324	8.390			9.46
10.0		16.45	2.2	324	8.380			9.43
13.0			2.3	320	8.400			9.43
16.0		16.46	2.3	322	8.390			9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.045	400E00	000E00	100E00		
4.0	0.044					
7.0	0.046	400E00				
10.0	0.041					
13.0	0.040					
16.0	0.042	200E00	000E00	100E00		

C-REF-NO 113
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 41-34-57N
LON 081-36-15W
YEAR 1967
MONTH 10
DAY 07
TIME 0045

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.72	7.0	339	8.330			9.83
4.0		16.76	5.3	328	8.420			9.77
7.0		16.72	5.6	328	8.440			9.92
10.0		16.76	5.6	328	8.440			9.75

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.143	180E02	340E01	200E00	140E02	
4.0	0.121					
7.0	0.117	260E01				
10.0	0.119	680E01	460E01	200E00	840E01	

C-REF-NO 113
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 41-32-00N
LON 081-41-54W

YEAR 1967
MONTH 10
DAY 07
TIME 0143

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0		16.56	6.8	334	8.370		9.52	0.115
4.0		16.58	5.1	336	8.380		9.59	0.114
7.0		16.56	6.3	335	8.380		9.53	0.128
10.0		16.60	8.2	323	8.310		9.53	0.107

DEPTH	R SIQ2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			190E02	300E01		
4.0						
7.0						
10.0			200E02	250E01		

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	208.0	92.7	30.7	42.000	8.400	1.600	14.800
4.0							
7.0							
10.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.024	0.680	0.005	0.002	0.042
4.0								
7.0								
10.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.004	0.185	0.000	10	30.2	139.5	1.3
4.0							1.4
7.0							1.4
10.0							1.5

C-REF-NO 113
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 41-37-18N
 LON 081-45-12W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 0301

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.31	3.3	317	8.350			9.25
4.0		16.31	3.3	319	8.370			9.45
7.0		16.28	3.4	324	8.380			9.64
10.0		16.32	3.5	322	8.380			9.38
13.0		16.32	3.8	320	8.390			9.38
16.0		16.33	4.2	319	8.400			9.38

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.055	000E00	000E00	000E00		
4.0	0.056					
7.0	0.054	000E00				
10.0	0.054					
13.0	0.054					
16.0	0.054	000E00	000E00	000E00		

C-REF-NO 113
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-09N
 LON 081-49-27W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 0417

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		16.17	5.8	329	8.400			9.53
4.0		16.22	5.0	328	8.420			9.48
7.0		16.19	6.0	309	8.380			9.50
10.0		16.23	5.4	323	8.390			9.47
13.0		16.23	5.6	324	8.400			9.52

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.073	100E00	200E00	000E00		100E02
4.0	0.070					
7.0	0.068	650E01				
10.0	0.071					
13.0	0.071	190E01	160E01	300E00	130E02	880E01

C-REF-NO 113
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-27N
 LON 081-53-48W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 0503

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.16	6.6	289	8.330			9.52
4.0		16.19	6.6	316	8.360			9.44
7.0		16.17	6.9	315	8.390			9.53
10.0		16.21	8.0	315	8.400			9.58
13.0		16.20	7.8	318	8.410			9.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.062	700E00	800E00	000E00	600E01	840E01
4.0	0.062					
7.0	0.058	300E00				
10.0	0.059					
13.0	0.060	700E00	600E00	100E00	720E01	980E01

C-REF-NO 113
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 41-40-12N
 LON 081-54-54W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 0620

NO. DEPTHS 06
 SOUNDING 0165
 BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.32	2.2	311	8.410			9.39
4.0		16.32	2.8	318	8.400			9.53
7.0		16.29	3.0	317	8.410			9.50
10.0		16.33	3.0	317	8.400			9.48
13.0		16.35	2.7	317	8.400			9.52
16.0		16.33	2.8	317	8.410			9.47

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.042	500E00	000E00	000E00		540E02
4.0	0.039					
7.0	0.040	200E00				
10.0	0.038					
13.0	0.039					
16.0	0.037	100E00	000E00	100E00		300E02

C-REF-NO 113
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-27N
 LON 081-58-27W
 YEAR 1967
 MONTH 10
 DAY 07
 TIME 0724

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.25	2.4	303	8.380			9.39
4.0		16.27	1.8	316	8.360			9.35
7.0		16.27	2.1	316	8.360			9.38
10.0		16.30	2.2	318	8.370			9.36
13.0		16.31	2.2	318	8.360			9.36
16.0		16.28	1.8	305	8.350			9.36
19.0		16.30	3.4	311	8.370			9.35

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.028	200E00		000E00		150E01
4.0	0.036					
7.0	0.029	000E00				
10.0	0.027					
13.0	0.032					
16.0	0.029					
19.0	0.023	100E00		100E00		900E01

C-REF-NO 113
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-24N
 LON 082-06-00W
 YEAR 1967
 MONTH 10
 DAY 07
 TIME 0920

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		16.18	1.7	304	8.350			9.41
4.0		16.18	2.2	312	8.310			9.41
7.0		16.15	1.8	300	8.340			9.39
10.0		16.20	2.5	313	8.340			9.41
13.0		16.18	1.9	316	8.350			9.08
16.0		16.18	2.3	314	8.350			9.41
19.0		16.21	1.7	313	8.340			9.41

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.033	200E00		100E00		360E01
4.0	0.033					
7.0	0.033	100E00				
10.0	0.027					
13.0	0.033					
16.0	0.030					
19.0	0.034	000E00		000E00	350E01	300E01

C-REF-NO 113
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 42-06-06N
LON 081-56-42W

YEAR 1967
MONTH 10
DAY 07
TIME 1106

NO. DEPTHS 06
SOUNDING 0183
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.73						
4.0		15.73						
7.0		15.54						
10.0		15.69						
13.0		15.78						
16.0		15.76						

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	360E01	420E01
4.0						
7.0		000E00				
10.0						
13.0						
16.0		000E00		100E00	270E01	320E01

C-REF-NO 113
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 42-13-00N
LON 082-03-54W

YEAR 1967
MONTH 10
DAY 07
TIME 1232

NO. DEPTHS 05
SOUNDING 0155
BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.8	15.63	3.5	315	8.180			9.48
4.0		15.65	4.1	319	8.190			9.46
7.0		15.62	4.3	321	8.230			9.49
10.0		15.66	4.2	318	8.220			9.48
13.0		15.66	4.6	317	8.250			9.46

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.018	200E00		100E00	540E01	370E01
4.0	0.019					
7.0	0.017	100E00				
10.0	0.017					
13.0	0.020	000E00		100E00	470E01	430E01

C-REF-NO 113
CONS. NO 069

COUNTRY 18
INSTITUTE 22

LAT 42-04-54N
LON 082-23-57W

YEAR 1967
MONTH 10
DAY 07
TIME 1446

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.0	15.74	6.8	303	8.230			9.85
4.0		15.78	7.5	315	8.280			9.85
7.0		15.76	7.2	317	8.290			9.88
10.0		15.78	8.3	316	8.310			9.88

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.016					
4.0	0.016					
7.0	0.015					
10.0	0.017					

C-REF-NO 113
CONS. NO 070

COUNTRY 18
INSTITUTE 22

LAT 41-52-27N
LON 082-26-06W

YEAR 1967
MONTH 10
DAY 07
TIME 1636

NO. DEPTHS 04
SOUNDING 0110
BT SLIDE NO 068

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	15.00	9.5	289	8.260			9.81
4.0		15.01	8.6	298	8.290			9.91
7.0		14.98	8.4	299	8.300			9.91
10.0			6.6	296	8.300			10.00

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.020	100E00		100E00	400E01	
4.0	0.018					
7.0	0.017	000E00				
10.0	0.019	000E00		100E00	650E01	

C-REF-NO 113
CONS. NO 071

COUNTRY 18
INSTITUTE 22

LAT 41-47-18N
LON 082-22-15W

YEAR 1967
MONTH 10
DAY 07
TIME 1743

NO. DEPTHS 04
SOUNDING 0128
BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	4.0	15.88	5.6	307	8.260			9.77
4.0		15.88	5.2	317	8.280			9.83
7.0		15.85	5.5	317	8.300			9.83
10.0		15.89	5.9	320	8.320			9.77

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.037	000E00		000E00	420E01	
4.0	0.035					
7.0	0.036	000E00				
10.0	0.035	000E00		000E00	300E01	

C-REF-NO 113
CONS. NO 072

COUNTRY 18
INSTITUTE 22

LAT 41-35-33N
LON 082-07-27W

YEAR 1967
MONTH 10
DAY 07
TIME 1940

NO. DEPTHS 05
SOUNDING 0165
BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.5	15.83	5.7	295	8.350			9.64
4.0		15.85	5.8	300	8.340			9.75
7.0		15.84	5.8	300	8.350			9.75
10.0		15.87	7.5	303	8.380			9.75
13.0		15.85	5.5	300	8.340			9.69

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.045	000E00		000E00	300E01	
4.0	0.046					
7.0	0.042	100E00				
10.0	0.043					
13.0	0.044	100E00		100E00	400E01	

C-REF-NO 113
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-15N
 LON 082-04-36W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 2044

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.5	15.90	12.0	292	8.350			9.78
4.0		15.91	7.9	303	8.380			9.89
7.0		15.88	7.6	305	8.390			9.89
10.0		15.93	7.2	303	8.390			9.88

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.039	300E00		000E00	800E01	
4.0	0.039					
7.0	0.040	100E00				
10.0	0.040	100E00		300E00	420E01	

C-REF-NO 113
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 41-29-36N
 LON 082-12-48W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 2146

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.5	15.54	6.0	300	8.370			9.94
4.0		15.53	11.0	291	8.370			9.97
7.0		15.52	11.0	292	8.370			9.97

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.042	300E00	000E00	300E00	320E01	
4.0	0.041					
7.0	0.041	200E00	000E00	200E00	840E01	

C-REF-NO 113
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-03N
 LON 082-20-03W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 2242

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.8	15.72	7.2	278	8.260			9.69
4.0		15.73	7.7	277	8.260			9.58
7.0		15.61	6.8	277	8.250			9.50
10.0		15.72	7.2	276	8.260			9.58
13.0		15.74	7.8	268	8.270			9.58

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.040	100E00		300E00		
4.0	0.039					
7.0	0.039	000E00				
10.0	0.041					
13.0	0.049	000E00		000E00		

C-REF-NO 113
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 41-26-30N
 LON 082-24-09W

YEAR 1967
 MONTH 10
 DAY 07
 TIME 2343

NO. DEPTHS 03
 SOUNDING 0108
 BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.50	16.0	275	8.180			9.63
4.0		15.52	16.0	286	8.250			9.69
7.0		15.49	18.0	286	8.280			9.63

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.052	300E00		100E00		
4.0	0.045					
7.0	0.043	000E00		200E00		

C-REF-NO 113
CONS. NO 077
COUNTRY 18
INSTITUTE 22

LAT	41-25-48N	YEAR	1967
LON	082-32-57W	MONTH	10
		DAY	08
		TIME	0058

NO. DEPTHS	04
SOUNDING	0110
BT SLIDE NO	075

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.48	32.0	271	8.280			9.69
4.0		15.50	29.0	272	8.290			9.69
7.0		15.47	32.0	278	8.310			9.69
10.0		15.49	34.0	276	8.300			9.71

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.051	200E00		400E00	960E01	980E01
4.0	0.050					
7.0	0.048	110E01				
10.0	0.050	000E00		500E00	730E01	480E01

C-REF-NO 113
CONS. NO 078
COUNTRY 18
INSTITUTE 22

LAT	41-31-42N	YEAR	1967
LON	082-35-27W	MONTH	10
		DAY	08
		TIME	0217

NO. DEPTHS	04
SOUNDING	0136
BT SLIDE NO	076

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.34	11.0	290	8.090			9.62
4.0		15.32	11.0	294	8.240			9.63
7.0		15.31	11.0	289	8.220			9.54
10.0		15.34	11.0	273	8.250			9.62

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.054	000E00		200E00	270E01	520E01
4.0	0.051					
7.0	0.050	000E00				
10.0	0.050	000E00		500E00	310E01	600E01

C-REF-NO 113
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-54N
 LON 082-31-12W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0347

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 077

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.08	7.2	270	8.130			9.68
4.0		15.09	8.1	274	8.180			9.62
7.0		15.07	8.2	274	8.210			9.63
10.0		15.10	7.5	275	8.230			9.60

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.047	000E00		000E00	540E01	500E01
4.0	0.045					
7.0	0.045	000E00				
10.0	0.045	000E00		700E00	240E02	140E02

C-REF-NO 113
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 41-36-45N
 LON 082-38-39W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0450

NO. DEPTHS 03
 SOUNDING 0119
 BT SLIDE NO 078

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
10.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		300E00		000E00	320E01	640E01
7.0		100E00				
10.0		000E00		600E00	760E01	680E01

C-REF-NO 113
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 41-42-00N
 LON 082-34-57W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0545

NO. DEPTHS 03
 SCUNDING 0119
 BT SLIDE NO 079

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.02	8.1	271	8.280			10.00
4.0		15.03	11.0	282	8.320			9.97
7.0		15.00	10.0	280	8.350			10.00

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.024	600E00		130E01	410E01	110E02
4.0	0.019					
7.0	0.017	800E00			240E01	760E01

C-REF-NO 113
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-18N
 LON 082-30-21W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0654

NO. DEPTHS 03
 SOUNDING 0119
 BT SLIDE NO 080

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		14.85	8.0	283	8.390			10.05
4.0		14.86	7.7	293	8.410			10.08
7.0		14.77	9.2	294	8.410			10.08

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.003	000E00		000E00	620E01	750E01
4.0	0.002					
7.0	0.002	200E00			270E01	380E01

C-REF-NO 113
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-30N
 LON 082-34-21W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0818

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 081

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.05	6.5	266	8.420			10.03
4.0		15.07	6.2	265	8.410			10.13
7.0		15.02	6.1	265	8.420			10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.043	000E00		200E00	420E01	100E02
4.0	0.047					
7.0	0.053	200E00		900E00	680E01	880E01

C-REF-NO 113
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-09N
 LON 082-36-21W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 0921

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 082

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		14.94	7.2	267	8.420			10.03
4.0		14.96	9.7	266	8.400			10.00
7.0		14.92	7.7	266	8.420			10.00

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.040	280E01	520E01	000E00	320E02	220E02
4.0	0.042					
7.0	0.048	230E01	680E01	000E00	320E02	230E02

C-REF-NO 113
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-21N
 LON 082-45-03W
 YEAR 1967
 MONTH 10
 DAY 08
 TIME 1015

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 083

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		14.88	6.8	273	8.370			10.10
4.0		14.89	7.0	269	8.370			10.08
7.0		14.88	7.4	270	8.370			10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.074					
4.0	0.070					
7.0	0.063					

C-REF-NO 113
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-12N
 LON 082-56-57W
 YEAR 1967
 MONTH 10
 DAY 08
 TIME 1135

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 084

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0		13.48	5.6	247	8.250		9.93	0.147
4.0		13.49	5.9	249	8.230		10.00	0.143
7.0		13.46	6.7	248	8.240		10.00	0.136

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		500E00	000E00		580E02	980E02
4.0						
7.0		100E00	100E01	500E00	350E02	110E03

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	144.0	82.0	17.1	32.000	7.400	1.000	7.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.023	0.200	0.003	0.002	0.016
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.001	0.135	0.000	5	16.8	110.4	0.9
4.0							0.5
7.0							0.4

C-REF-NO 113
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-42N
 LON 083-04-33W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 1238

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 085

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.2	13.89	7.3	234	8.060			9.54
4.0		13.89	8.6	225	8.060			9.57
7.0		13.70	7.4	223	8.050			9.57

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.140		500E01	200E00	540E02	
4.0	0.145					
7.0	0.150		400E01	200E00	920E02	

C-REF-NO 113
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 41-53-30N
 LON 083-11-51W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 1342

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 086

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	0.8	14.00	16.0	248	8.130		9.77	0.128
4.0		13.99	14.0	249	8.130		9.80	0.127
7.0		13.97	17.0	249	8.130		9.85	0.125

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0			300E01	200E00		
4.0						
7.0			300E01	300E00		

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	197.0	99.1	26.9	44.400	8.500	1.300	11.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.022	0.530	0.004	0.003	0.020
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.002	0.135	0.011	5	29.8	145.9	0.3
4.0							0.3
7.0							0.4

C-REF-NO 113
 CONS. NO 089
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-15N
 LON 083-08-24W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 1453

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 087

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.8	14.37	14.0	287	8.180			9.96
4.0		14.36	12.0	271	8.210			9.96
7.0		14.29	13.0	270	8.230			9.97

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.128	000E00	000E00	000E00	480E02	430E02
4.0	0.129					
7.0	0.120	130E01	600E00	200E00	300E02	180E02

C-REF-NO 113
 CONS. NO 090
 COUNTRY 18
 INSTITUTE 22

LAT 41-40-00N
 LON 083-29-00W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 1705

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	0.2		60.0	519	7.180		1.97	0.500
4.0			61.0	523	7.330		1.87	0.460
7.0			56.0	521	7.380		2.15	0.480

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		510E04	120E04	480E02	300E04	210E04
4.0						
7.0		420E04	110E04	340E02	470E04	280E04

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	317.0	105.8	75.9	50.000	15.200	3.800	27.400
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.030	1.450	0.007	0.010	0.205
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.016	0.690	0.012	10	43.0	187.4	3.8
4.0							3.7
7.0							4.1

C-REF-NO 113
 CONS. NO 091
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-42N
 LON 082-53-36W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 2012

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 088

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	14.34	7.2	267	8.210			10.19
4.0		14.35	8.5	265	8.220			10.19
7.0		14.30	8.6	264	8.240			10.16

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.120	800E00	000E00	000E00	840E01	600E01
4.0	0.118					
7.0	0.110	110E01	000E00	000E00	580E01	480E01

C-REF-NO 113
 CONS. NO 092
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-24N
 LON 082-51-54W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 2105

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 089

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		14.62	8.9	253	8.330			10.31
4.0		14.62	8.3	254	8.340			10.33
7.0		14.60	10.0	253	8.340			10.31

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.136	000E00	000E00	300E00	900E01	400E01
4.0	0.128					
7.0	0.126	100E00	000E00	000E00	760E01	480E01

C-REF-NO 113
 CONS. NO 093
 COUNTRY 18
 INSTITUTE 22

LAT 41-41-00N
 LON 082-55-00W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 2152

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 090

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	0.8	14.83	12.0	274	8.260			9.97
4.0		14.85	11.0	275	8.250			9.99
7.0		14.82	12.0	276	8.250			9.92

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.083	000E00	000E00	200E00	400E02	360E01
4.0	0.080					
7.0	0.070	100E00	000E00	300E00	340E02	440E01

C-REF-NO 113
 CONS. NO 094
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-03N
 LON 083-04-57W

YEAR 1967
 MONTH 10
 DAY 08
 TIME 2255

NO. DEPTHS 03
 SOUNDING 0073
 BT SLIDE NO 091

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0		14.75	5.2		8.250		10.02	0.089
4.0		14.75	5.4		8.280		9.86	0.086
7.0		14.72	5.4		8.300		9.82	0.084

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00	000E00	000E00	370E02	500E01
4.0						
7.0		100E00	000E00	300E00	460E02	400E01

DEPTH	F RES	TT ALK	S SD4	CA NFA	MG NF	K NFS	NA NFS
1.0	155.0	84.1	18.9	34.600	7.400	1.000	8.600
4.0							
7.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.026	0.460	0.005	0.002	0.024
4.0								
7.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.006	0.145	0.008	5	22.0	116.9	0.8
4.0							0.9
7.0							1.0

C-REF-NO 113
 CONS. NO 095
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-33N
 LON 082-45-06W

YEAR 1967
 MONTH 10
 DAY 09
 TIME 0101

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 092

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		15.03	12.0	272	8.260	83.5		9.75
4.0		15.06	13.0	265	8.290	84.5		9.77
7.0		15.02	12.0	272	8.290	84.0		9.77

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.118	000E00		000E00	680E01	260E01
4.0	0.118					
7.0	0.118	000E00		000E00	800E01	200E01

C-REF-NO 113
 CONS. NO 096
 COUNTRY 18
 INSTITUTE 22

LAT 41-43-33N
 LON 082-44-48W

YEAR 1967
 MONTH 10
 DAY 09
 TIME 0206

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 093

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		15.02	6.1	246	8.300	86.5		9.87
4.0		15.01	5.6	254	8.330	87.5		9.97
7.0		14.99	5.9	257	8.330	87.5		9.84

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.112	100E00		000E00	650E02	150E02
4.0	0.112					
7.0	0.109	100E00		200E00	420E02	800E01

C-REF-NO 113
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

LAT 41-38-00N
 LON 082-46-00W

YEAR 1967
 MONTH 10
 DAY 09
 TIME 0312

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 094

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		14.74	7.9	262	8.320	88.5		9.92
4.0		14.73	8.5	260	8.330	89.5		9.91
7.0		14.71	8.1	262	8.320	89.5		9.91

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.087	000E00	000E00	000E00	370E02	110E02
4.0	0.085					
7.0	0.085	000E00	200E00	300E00	420E02	190E02

C-REF-NO 113
CONS. NO 098
COUNTRY 18
INSTITUTE 22

LAT 42-08-30N
LON 080-06-06W

YEAR 1967
MONTH 10
DAY 09
TIME 1736

NO. DEPTHS 02
SOUNDING 0055
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	1.0		5.6	314	7.870	87.0	8.97	0.005
4.0			5.5	313	7.900	89.6	8.99	0.003

DEPTH	R SIO2	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		500E02	150E02	120E01		
4.0		300E02	150E02	200E01		

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	217.0	89.4	33.6	40.100	8.200	1.400	17.200
4.0							

DEPTH	CD NF	CR NF	CO NF	CU NF	FE NF	PB NF	LI NF	MN NF
1.0	0.000	0.000	0.000	0.023	0.400	0.003	0.002	0.058
4.0								

DEPTH	NI NF	SR NFA	ZN NF	HAZEN	CL	HARD	BOD W
1.0	0.001	0.165	0.010	20	33.5	133.9	2.3
4.0							3.0

CRUISE 67 - 115

C-REF-NO 115
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-24N
 LON 079-53-48W
 YEAR 1967
 MONTH 10
 DAY 24
 TIME 0121

NO. DEPTHS 16
 SOUNDING 0640
 BT SLIDE NO 001

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0		12.80	1.6	322	8.210	95.0	10.06	0.079
4.0		12.82	1.8	319	8.210	97.0	10.52	0.086
7.0		12.76	1.7	302	8.250	100.0	10.13	0.077
10.0		12.71	1.5	317	8.270	104.0	11.26	0.073
13.0		12.60	1.7	307	8.260	103.0	10.49	0.079
16.0		12.40	2.3	319	8.220	105.0	11.18	0.080
19.0		12.34	2.9	318	8.220	105.0	9.98	0.078
22.0		12.34	2.3	317	8.220	105.0	10.07	0.074
25.0		12.36	2.5	317	8.230	115.0	10.06	0.079
28.0		12.30	2.7	318	8.210	110.0	10.07	0.076
31.0		12.18	2.7	319	8.190	110.0	9.68	0.083
37.0		12.46	1.5	317	8.220	110.0	10.01	0.070
43.0		11.57	1.7	321	8.120	110.0	10.21	0.105
49.0		8.28	6.3	308	7.940	110.0	8.71	0.264
55.0		6.05	2.2	328	7.740	110.0	7.50	0.342
61.0		5.99	42.0	328	7.750	110.0	7.36	0.375

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	000E00		000E00	800E00	400E00
4.0					
7.0	000E00				
10.0					
13.0					
16.0					
19.0					
22.0	000E00				
25.0					
28.0					
31.0					
37.0					
43.0					
49.0					
55.0					
61.0	000E00		000E00	150E01	500E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	191.0	96.6	25.5	38.800	8.000	1.300	11.600
4.0							
7.0							
10.0	192.0	95.2	24.9	38.800	8.000	1.200	11.200
13.0							
16.0							
19.0	194.0	96.0	25.5	40.000	7.900	1.300	11.200
22.0							
25.0							
28.0	189.0	96.0	25.2	38.800	7.900	1.200	11.200
31.0							
37.0	191.0	97.1	25.6	40.000	7.900	1.200	11.800
43.0							
49.0							
55.0	194.0	99.0	25.2	41.600	7.900	1.200	11.800
61.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	26.5	129.8	0.5
4.0				0.4
7.0				0.3
10.0	5	27.0	129.8	0.4
13.0				0.6
16.0				1.6
19.0	5	26.5	132.4	0.7
22.0				0.8
25.0				0.9
28.0	5	27.0	129.4	0.8
31.0				0.6
37.0	5	26.5	132.8	0.6
43.0				0.9
49.0				0.6
55.0	5	27.0	136.4	0.8
61.0				1.2

C-REF-NO 115
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

LAT 42-21-27N
 LON 080-02-42W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 0735

NO. DEPTHS 11
 SOUNDING 0329
 BT SLIDE NO 002

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.85	2.7	318	8.240	110.0		9.98
4.0		12.85	2.2	318	8.260	115.0		9.98
7.0		12.83	2.1	316	8.250	115.0		9.98
10.0		12.88	1.7	316	8.260	115.0		9.98
13.0		12.86	1.7	317	8.260	115.0		9.96
16.0		12.85	2.2	316	8.260	115.0		9.98
19.0		12.84	2.0	316	8.260	115.0		9.98
22.0		12.84	2.4	316	8.250	115.0		9.95
25.0		12.85	1.9	305	8.250	120.0		9.95
28.0		12.84	1.7	316	8.250	120.0		9.92
31.0		12.61	1.5	306	8.230	120.0		9.81

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.070	000E00		000E00	110E01	300E00
4.0	0.083					
7.0	0.065	000E00				
10.0	0.067					
13.0	0.067					
16.0	0.084					
19.0	0.065					
22.0	0.062	000E00				
25.0	0.066					
28.0	0.071					
31.0	0.074	000E00		000E00	180E01	600E00

C-REF-NO 115
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 42-12-42N
 LON 080-07-36W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 0915

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 003

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.95	1.9	317	8.300	120.0		10.06
4.0		12.98	2.2	306	8.290	120.0		10.06
7.0		12.94	2.0	315	8.290	120.0		10.04
10.0		13.01	1.9	316	8.290	120.0		10.06
13.0		13.00	1.7	318	8.300	120.0		10.02
16.0		12.99	2.2	317	8.300	120.0		10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.026	000E00		000E00	700E00	600E00
4.0	0.028					
7.0	0.026	000E00				
10.0	0.027					
13.0	0.031					
16.0	0.023	000E00		000E00	100E01	300E00

C-REF-NO 115
CONS. NO 004
COUNTRY 18
INSTITUTE 22

LAT 42-08-15N
LON 080-12-03W

YEAR 1967
MONTH 10
DAY 24
TIME 1013

NO. DEPTHS 02
SOUNDING 0082
BT SLIDE NO 004

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	200E01	200E01
7.0		000E00		000E00	560E01	280E01

C-REF-NO 115
CONS. NO 005
COUNTRY 18
INSTITUTE 22

LAT 42-06-42N
LON 080-16-27W

YEAR 1967
MONTH 10
DAY 24
TIME 1052

NO. DEPTHS 03
SOUNDING 0100
BT SLIDE NO 005

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
10.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	120E01	100E01
7.0		000E00				
10.0		000E00		000E00	140E01	140E01

C-REF-NO 115
CONS. NO 006
COUNTRY 18
INSTITUTE 22

LAT 42-08-36N
LON 080-06-30W

YEAR 1967
MONTH 10
DAY 24
TIME 1602

NO. DEPTHS 03
SOUNDING 0070
BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	1.0		4.7	360	7.730	95.0	10.09	0.072
4.0			3.9	357	7.910	95.0	10.21	0.051
7.0			44.0	357	7.720	90.0	8.52	0.067

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	700E01	170E01	220E01	120E03	600E02
4.0					
7.0	150E02	100E02	800E00	700E02	200E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	190.0	96.6	25.4	40.800	7.900	1.300	11.800
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	27.5	134.4	1.7
4.0				1.8
7.0				1.6

C-REF-NO 115
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 42-01-51N
 LON 080-28-54W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 1907

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 007

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.5	12.56	5.7	362	8.180	100.0		10.15
4.0		12.54	5.0	362	8.190	105.0		10.16
7.0		12.45	6.7	361	8.170	110.0		10.21
10.0		12.41	4.7	361	8.180	120.0		10.13

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.250	000E00		000E00	250E02	140E02
4.0	0.250					
7.0	0.210	000E00				
10.0	0.220	400E00		700E00	310E02	130E02

C-REF-NO 115
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

LAT 42-02-51N
 LON 080-36-00W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 2001

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 008

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	3.0	13.29	2.9	345	8.250	110.0		10.09
4.0		13.28	2.8	343	8.240	111.0		10.09
7.0		13.20	2.3	344	8.230	116.0		10.04
10.0		13.19	2.4	345	8.220	120.0		9.98
13.0		13.15	2.2	346	8.210	125.0		9.93
16.0		13.11	2.2	345	8.210	130.0		9.87

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.079	000E00		000E00	350E01	900E00
4.0	0.066					
7.0	0.071	000E00				
10.0	0.070					
13.0	0.067					
16.0	0.068	000E00		000E00	210E01	700E00

C-REF-NO 115
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-21N
 LON 080-41-30W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 2114

NO. DEPTHS 05
 SOUNDING 0137
 BT SLIDE NO 009

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.5	12.46	6.6	360	8.190	125.0		10.06
4.0		12.48	6.6	360	8.170	135.0		10.02
7.0		12.44	6.2	369	8.170	140.0		10.04
10.0		12.45	10.0	359	8.160	140.0		10.02
13.0		12.39	6.5	356	8.160	140.0		9.95

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.210	460E01		600E00	550E02	600E02
4.0	0.215					
7.0	0.240	220E01				
10.0	0.200					
13.0	0.220	410E01		900E00	900E02	480E02

C-REF-NO 115
 CONS. NO 010
 COUNTRY 18
 INSTITUTE 22

LAT 41-58-18N
 LON 080-57-15W

YEAR 1967
 MONTH 10
 DAY 24
 TIME 2257

NO. DEPTHS 07
 SOUNDING 0201
 BT SLIDE NO 010

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		13.52	1.8	345	8.180	140.0		10.12
4.0		13.53	1.8	349	8.250	140.0		10.12
7.0		13.51	1.6	347	8.270	145.0		10.12
10.0		13.54	1.6	344	8.270	85.0		10.12
13.0		13.53	1.7	347	8.270	90.0		10.12
16.0		13.50	1.5	344	8.280	90.0		10.07
19.0		13.46	1.9	336	8.270	90.0		9.99

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.048	000E00		000E00	510E01	350E01
4.0	0.051					
7.0	0.053	000E00				
10.0	0.051					
13.0	0.054					
16.0	0.054					
19.0	0.044	000E00		000E00	430E01	230E01

C-REF-NO 115
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-24N
 LON 080-52-45W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0011

NO. DEPTHS 08
 SOUNDING 0219
 BT SLIDE NO 011

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		13.35	1.3	320	8.150	93.0		10.10
4.0		13.35	1.7	321	8.200	93.0		10.23
7.0		13.34	1.4	317	8.240	93.0		10.21
10.0		13.34	1.5	321	8.250	96.0		10.63
13.0		13.35	1.5	319	8.270	98.0		10.15
16.0		13.32	1.5	317	8.260	96.0		11.40
19.0		13.30	1.3	321	8.270	100.0		10.27
21.0		13.26	1.6	320	8.250	98.0		12.14

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.037	000E00		000E00	430E01	300E01
4.0	0.033					
7.0	0.033	000E00				
10.0	0.030					
13.0	0.033					
16.0	0.035					
19.0	0.037					
21.0	0.035	200E00		000E00	370E01	170E01

C-REF-NO 115
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-09N
 LON 080-43-06W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0209

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 012

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		13.41	3.3	322	8.190	97.0		9.99
4.0		13.42	3.1	322	8.250	100.0		10.02
7.0		13.40	3.0	321	8.260	100.0		10.07
10.0		13.44	2.8	325	8.260	92.0		10.01
13.0		13.41	2.5	323	8.270	100.0		9.98
16.0		13.43	2.2	318	8.280	100.0		9.98
19.0		13.42	2.0	328	8.290	105.0		9.90

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.041	100E00		000E00	130E01	110E01
4.0	0.044					
7.0	0.038	000E00				
10.0						
13.0	0.041					
16.0	0.043					
19.0	0.041	000E00		000E00	160E01	900E00

C-REF-NO 115
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-36N
 LON 080-41-57W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0456

NO. DEPTHS 05
 SOUNDING 0165
 BT SLIDE NO 013

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.46	8.8	323	8.160			10.32
4.0		12.46	7.9	326	8.180			10.35
7.0		12.48	7.2	325	8.220			10.23
10.0		12.51	7.3	315	8.240			10.29
13.0		12.50	6.8	325	8.230			10.32

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.093	000E00		000E00	270E01	140E01
4.0	0.096					
7.0	0.105	000E00				
10.0	0.102					
13.0	0.104	000E00		000E00	210E01	900E00

C-REF-NO 115
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 42-36-48N
 LON 080-50-06W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0616

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 014

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.25	14.0	319	8.250			10.19
4.0		12.25	13.0	318	8.260			10.19
7.0		12.26	17.0	318	8.280			10.23
10.0		12.23	19.0	317	8.270			10.21

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.062	100E00		000E00	430E01	220E01
4.0	0.090					
7.0	0.057					
10.0	0.054	100E00		100E00	280E01	160E01

C-REF-NO 115
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

LAT 42-37-36N
 LON 081-05-33W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0755

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 015

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.74	11.0	319	8.270			10.23
4.0		12.75	11.0	318	8.280			10.23
7.0		12.77	9.2	317	8.290			10.15
10.0		12.72	17.0	317	8.280			10.18

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.035	100E00		000E00	720E01	340E01
4.0	0.037					
7.0	0.035					
10.0	0.041	000E00		100E00	640E01	200E01

C-REF-NO 115
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 42-38-39N
 LON 081-12-21W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 0851

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 016

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.52	28.0	320	8.280			10.18
4.0		12.54	27.0	320	8.290			10.30
7.0		12.56	30.0	305	8.280			10.27

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.040					
4.0	0.034					
7.0	0.042					

C-REF-NO 115
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 42-24-42N
 LON 081-07-12W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 1141

NO. DEPTHS 06
 SOUNDING 0201
 BT SLIDE NO 017

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		13.21	3.7	315	8.250			10.02
4.0		13.23	3.8	301	8.220			9.99
7.0		13.23	3.3	315	8.250			10.02
10.0		13.20	2.8	314	8.230			10.01
13.0		13.18	2.5	314	8.240			10.01
16.0		13.23	3.2	313	8.250			10.01

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.055	600E00		200E00	330E01	200E01
4.0	0.051					
7.0	0.048	000E00				
10.0	0.045					
13.0	0.047					
16.0	0.050	100E00		000E00	280E01	100E01

C-REF-NO 115
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 42-03-39N
 LON 081-09-03W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 1455

NO. DEPTHS 07
 SCUNDING 0228
 BT SLIDE NO 018

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.0	13.50	4.2	321	8.230			9.98
4.0		13.53	4.2	319	8.220			9.98
7.0		13.53	4.4	318	8.220			9.98
10.0		13.51	4.3	303	8.220			9.98
13.0		13.54	2.9	320	8.240			9.99
16.0		13.54	3.9	320	8.230			9.90
19.0		13.52	4.0	319	8.240			9.98

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.060	300E00		000E00	470E01	110E02
4.0	0.038					
7.0	0.045	400E00				
10.0	0.047					
13.0	0.045					
16.0	0.050					
19.0	0.040	000E00		000E00	440E01	320E01

C-REF-NO 115
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-48N
 LON 081-14-30W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 1703

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 019

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.5	13.09	13.0	332	8.090			9.85
4.0		13.12	12.0	336	8.140			9.87
7.0		13.15	12.0	333	8.140			9.84
10.0		13.11	13.0	329	8.160			9.85
13.0		13.15	13.5	330	8.140			9.84

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.082	170E01		500E00		620E02
4.0	0.080					
7.0	0.086	000E00				
10.0	0.084					
13.0	0.075	600E00		600E00		380E02

C-REF-NO 115
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-09N
 LON 081-22-33W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 1821

NO. DEPTHS 05
 SOUNDING 0165
 BT SLIDE NO 020

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.0	13.20	7.0	316	8.170			9.96
4.0		13.20	6.5	320	8.210			9.92
7.0		13.21	7.5	317	8.210			9.93
10.0		13.18	6.9	316	8.210			9.98
13.0		13.21	7.4	306	8.210			9.92

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.064	000E00		000E00	540E01	330E01
4.0	0.071					
7.0	0.090	000E00				
10.0	0.069					
13.0	0.068	000E00		000E00	450E01	280E01

C-REF-NO 115
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-03N
 LON 081-26-57W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 1930

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 021

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	13.09	7.8	312	8.210			10.02
4.0		13.12	8.4	308	8.220			10.02
7.0		13.12	10.0	313	8.210			9.98
10.0		13.09	12.0	312	8.200			9.99
13.0		13.12	12.5	309	8.210			9.98

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.086	400E00		000E00	240E02	800E01
4.0	0.088					
7.0	0.086	600E00				
10.0	0.086					
13.0	0.092	500E00		800E00	150E02	100E02

C-REF-NO 115
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-21N
 LON 081-35-24W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 2046

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 022

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	2.0	13.15	5.7	312	8.210			10.12
4.0			5.7	310	8.220			10.07
7.0		13.10	7.9	299	8.220			10.10
10.0		13.14	7.7	311	8.220			10.09
13.0		13.19	7.9	307	8.220			10.01

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.077	100E00		000E00	150E02	700E01
4.0	0.077					
7.0	0.078	100E00				
10.0	0.074					
13.0	0.077	000E00		000E00	860E01	600E01

C-REF-NO 115
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-18N
 LON 081-42-42W

YEAR 1967
 MONTH 10
 DAY 25
 TIME 2222

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0			20.0	516	7.590		7.67	0.420
4.0			18.0	508	7.440		8.15	0.410
7.0			15.0	503	7.410		8.20	0.370

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	260E03	340E02	430E02	700E03	200E03
4.0					
7.0	670E03	140E03	700E02	500E04	270E04

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	307.0	79.1	59.9	46.800	9.400	3.900	35.000
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	10	62.0	155.6	2.1
4.0				2.5
7.0				2.3

C-REF-NO 115
CONS. NO 024
COUNTRY 18
INSTITUTE 22

LAT 41-26-06N
LON 082-32-57W

YEAR 1967
MONTH 10
DAY 26
TIME 0325

NO. DEPTHS 04
SOUNDING 0100
BT SLIDE NO 023

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.31	3.6	291	8.120			10.16
4.0		12.31	3.9	291	8.140			10.12
7.0		12.33	3.5	290	8.160			10.18
10.0		12.30	3.6	284	8.170			10.13

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.119					
4.0	0.142					
7.0	0.111					
10.0	0.106					

C-REF-NO 115
CONS. NO 025
COUNTRY 18
INSTITUTE 22

LAT 41-31-51N
LON 082-35-33W

YEAR 1967
MONTH 10
DAY 26
TIME 0440

NO. DEPTHS 04
SOUNDING 0128
BT SLIDE NO 024

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.87	7.7	288	8.330			10.47
4.0		11.89	5.6	289	8.320			10.46
7.0		11.90	7.0	289	8.310			10.44
10.0		11.87	7.5	289	8.320			10.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.106	000E00		000E00	310E01	260E01
4.0	0.100					
7.0	0.100	100E00				
10.0	0.112	500E00		000E00	570E01	390E01

C-REF-NO 115
CONS. NO 026
COUNTRY 18
INSTITUTE 22

LAT 41-36-51N
LON 082-38-45W

YEAR 1967
MONTH 10
DAY 26
TIME 0536

NO. DEPTHS 03
SOUNDING 0119
BT SLIDE NO 025

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
10.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		900E00		100E00	140E02	660E01
7.0		150E01				
10.0		140E01		200E00	560E01	420E01

C-REF-NO 115
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 41-36-45N
LON 082-31-12W

YEAR 1967
MONTH 10
DAY 26
TIME 0627

NO. DEPTHS 04
SOUNDING 0128
BT SLIDE NO 026

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.83	5.2	283	8.260			10.36
4.0		11.84	4.0	294	8.250			10.41
7.0		11.85	3.8	286	8.240			10.38
10.0		11.82	4.7	294	8.230			10.43

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.124	000E00		000E00	360E01	150E01
4.0	0.115					
7.0	0.100	000E00				
10.0	0.119	000E00		000E00	150E01	800E00

C-REF-NO 115
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 41-48-12N
 LON 082-30-12W
 YEAR 1967
 MONTH 10
 DAY 26
 TIME 0758

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 027

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		10.97	22.0	309	8.300			10.80
4.0		11.00	22.0	307	8.310			10.83
7.0		11.01	18.0	307	8.300			10.80

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.215	100E01		250E01	180E02	900E01
4.0	0.205					
7.0	0.202	400E00		320E01	190E02	140E02

C-REF-NO 115
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 41-54-27N
 LON 082-34-42W
 YEAR 1967
 MONTH 10
 DAY 26
 TIME 0917

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 028

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.44	30.0	271	8.270			10.60
4.0		11.47	32.0	272	8.270			10.58
7.0		11.48	28.0	270	8.280			10.60

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.178	000E00		000E00	290E02	880E01
4.0	0.174					
7.0	0.168	100E00		000E00	260E02	720E01

C-REF-NO 115
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-09N
 LON 082-36-18W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1011

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 029

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.12	49.0	256	8.290			10.57
4.0		11.16	55.0	264	8.290			10.57
7.0		11.17	49.0	266	8.290			10.57

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.140	300E00	000E00	200E00	560E02	430E02
4.0	0.136					
7.0	0.131	200E00	000E00	000E00	380E02	260E02

C-REF-NO 115
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 41-59-33N
 LON 082-44-57W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1114

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 030

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		10.41	34.0	259	8.000			10.60
4.0		10.44	42.0	261	8.040			10.60
7.0		10.44	42.0	261	8.040			10.60

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.270					
4.0	0.280					
7.0	0.270					

C-REF-NO 115
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-06N
 LON 082-56-51W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1245

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 031

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	0.5	10.20	31.0	246	8.050		10.77	0.290
4.0		10.24	27.0	249	8.070		10.72	0.293
7.0		10.25	28.0	245	8.080		10.67	0.275

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	000E00	000E00	000E00		260E03
4.0					
7.0	700E00	600E00	000E00		210E03

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	154.0	81.6	17.4	32.500	7.100	0.900	8.000
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	10	18.0	110.4	1.0
4.0				0.8
7.0				1.0

C-REF-NO 115
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-33N
 LON 083-04-33W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1411

NO. DEPTHS 03
 SCUNDING 0082
 BT SLIDE NO 032

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	0.5	10.18	33.0	229	8.040			10.64
4.0		10.17	31.0	226	8.040			10.77
7.0		10.18	32.0	227	8.070			10.69

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.270	270E01	000E00	500E00	770E03	280E03
4.0	0.263					
7.0	0.263	250E01	000E00	600E00	710E03	260E03

C-REF-NO 115
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

LAT 41-53-33N
 LON 083-11-36W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1523

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 033

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	0.5	10.25	30.0	282	8.300		10.94	0.290
4.0		10.27	33.0	289	8.350		10.91	0.280
7.0		10.29	24.0	286	8.360		10.92	0.275

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	400E00	000E00	400E00	630E02	310E02
4.0					
7.0	300E00	000E00	200E00	830E02	530E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	175.0	85.0	20.5	33.600	7.400	1.100	11.600
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	24.0	114.4	2.2
4.0				2.1
7.0				2.0

C-REF-NO 115
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-30N
 LON 083-08-18W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1631

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 034

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	0.5	10.47	31.0	253	8.130			10.74
4.0		10.49	27.0	244	8.140			10.84
7.0		10.51	24.0	243	8.180			10.72

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.310	300E00	600E00	000E00	580E02	510E02
4.0	0.300					
7.0	0.295	000E00	120E01	000E00	350E02	260E01

C-REF-NO 115
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-54N
 LON 083-04-51W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1726

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 035

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	0.5	10.60	26.0	256	8.210		10.47	0.300
4.0		10.62	27.0	256	8.190		10.66	0.330
7.0		10.62	21.0	256	8.160		10.74	0.300

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	000E00	200E00	000E00	210E02	180E02
4.0					
7.0	000E00	000E00	000E00	190E02	120E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	148.0	81.1	17.2	30.400	6.900	0.900	8.600
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	18.0	104.4	0.7
4.0				0.9
7.0				0.8

C-REF-NO 115
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-45N
 LON 082-53-24W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 1904

NO. DEPTHS 03
 SCUNDING 0100
 BT SLIDE NO 036

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	0.5	10.83	31.0	252	8.240			10.67
4.0		10.85	32.0	254	8.220			10.67
7.0		10.86	32.0	253	8.220			10.75

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.285	000E00	000E00	000E00	150E02	280E02
4.0	0.285					
7.0	0.290	100E00	000E00	000E00	100E02	230E02

C-REF-NO 115
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 41-41-12N
 LON 082-56-03W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 2022

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 037

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	10.78	37.0	265	8.240			10.55
4.0		10.79	30.0	266	8.220			10.55
7.0		10.80	33.0	265	8.200			10.52

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.280	000E00	000E00	000E00	280E02	150E02
4.0	0.280					
7.0	0.280	000E00	000E00	000E00	120E02	250E02

C-REF-NO 115
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-36N
 LON 082-52-09W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 2112

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 038

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	10.68	31.0	252	8.220			10.66
4.0		10.70	33.0	250	8.210			10.66
7.0		10.72	32.0	250	8.210			10.69

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.300	200E00	000E00	000E00	260E02	240E02
4.0	0.295					
7.0	0.295	200E00	000E00	000E00	170E02	120E02

C-REF-NO 115
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 41-49-24N
 LON 082-45-06W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 2223

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 039

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	10.71	22.0	257	8.230			10.71
4.0		10.73	23.0	255	8.230			11.20
7.0		10.74	27.0	256	8.230			10.72

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.255	600E00	100E00	000E00	180E02	480E02
4.0	0.250					
7.0	0.245	400E00	000E00	200E00	800E02	220E02

C-REF-NO 115
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

LAT 41-43-30N
 LON 082-44-51W

YEAR 1967
 MONTH 10
 DAY 26
 TIME 2319

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 040

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		10.55	14.0	285	8.200			10.80
4.0		10.58	13.0	290	8.250			10.78
7.0		10.57	14.0	295	8.280			10.72

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.072	100E00		000E00	310E02	160E01
4.0	0.070					
7.0	0.070	000E00		000E00	150E02	480E01

C-REF-NO 115
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 41-38-06N
 LON 082-46-03W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 0016

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 041

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.01	11.0	295	8.220			10.67
4.0		11.05	12.0	306	8.270			10.77
7.0		11.11	11.0	302	8.280			10.72

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.075	400E00	000E00	000E00	350E02	210E02
4.0	0.070					
7.0	0.077	300E00	000E00	000E00	330E02	200E02

C-REF-NO 115
CONS. NO 043
COUNTRY 18
INSTITUTE 22

LAT 41-26-36N
LON 082-24-15W

YEAR 1967
MONTH 10
DAY 27
TIME 0309

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 042

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		11.41	5.8	287	8.220			10.40
4.0		11.43	4.8	279	8.250			10.44
7.0		11.42	5.4	278	8.280			10.50
10.0		11.21	7.0	291	8.300			10.61

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.066	000E00		000E00		
4.0	0.062					
7.0	0.045	000E00		100E00	140E02	900E01
10.0	0.033					

C-REF-NO 115
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 41-31-15N
LON 082-19-45W

YEAR 1967
MONTH 10
DAY 27
TIME 0419

NO. DEPTHS 05
SOUNDING 0146
BT SLIDE NO 043

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		11.87	5.4	291	8.180			10.30
4.0		11.90	5.1	286	8.210			10.32
7.0		11.90	4.4	278	8.220			10.36
10.0		11.87	5.0	285	8.230			10.35
13.0		11.91	6.4	282	8.220			10.30

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.084	000E00		000E00	580E01	340E01
4.0	0.081					
7.0	0.070	000E00				
10.0	0.078					
13.0	0.075	000E00		000E00	380E01	220E01

C-REF-NO 115
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 41-30-03N
 LON 082-12-48W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 0514

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 044

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		11.74	5.5	292	8.260			10.27
4.0		11.76	6.0	293	8.280			10.30
7.0		11.77	5.1	292	8.270			10.30
10.0		11.71	6.7	284	8.270			10.30

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.049	300E00		200E00	150E02	820E01
4.0	0.052					
7.0	0.048	100E00				
10.0	0.045	600E00		100E00	360E02	190E02

C-REF-NO 115
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 41-31-21N
 LON 082-04-33W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 0612

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 045

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		12.42	3.8	306	8.350			10.15
4.0		12.43	5.7	303	8.350			10.21
7.0		12.44	4.3	302	8.340			10.16
10.0		12.42	5.8	301	8.350			10.15

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.062	200E00		000E00	720E01	130E02
4.0	0.044					
7.0	0.044	000E00				
10.0	0.040	300E00		000E00	400E01	620E01

C-REF-NO 115
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-30N
 LON 081-53-57W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 0724

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 046

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		12.80	4.7	302	8.310			10.07
4.0		12.82	3.8	302	8.290			10.10
7.0		12.84	3.3	317	8.290			10.09
10.0		12.80	5.7	316	8.290			10.06
13.0		12.83	3.9	315	8.290			10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.049	200E00		000E00	110E02	520E01
4.0	0.047					
7.0	0.047	100E00				
10.0	0.048					
13.0	0.039	000E00		000E00	900E01	600E01

C-REF-NO 115
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 41-40-30N
 LON 081-55-15W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 0844

NO. DEPTHS 07
 SOUNDING 0201
 BT SLIDE NO 047

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		12.83	2.8	299	8.210			9.99
4.0		12.84	3.2	314	8.210			9.99
7.0		12.86	5.6	312	8.220			9.95
10.0		12.83	3.2	311	8.220			9.98
13.0		12.85	3.2	312	8.220			9.98
16.0		12.86	2.7	314	8.220			9.98
19.0		12.84	4.7	314	8.220			9.90

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.068	000E00	000E00	000E00	440E01	400E01
4.0	0.056					
7.0	0.061	000E00				
10.0	0.061					
13.0	0.064					
16.0	0.057					
19.0	0.057	000E00	000E00	000E00	540E01	860E01

C-REF-NO 115
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 41-45-30N
 LON 081-58-51W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1002

NO. DEPTHS 07
 SOUNDING 0219
 BT SLIDE NO 048

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.95	2.8	319	8.190			9.92
4.0		12.97	2.2	316	8.180			9.90
7.0		12.99	2.3	316	8.180			9.93
10.0		12.96	2.1	316	8.180			9.92
13.0		12.99	2.2	316	8.180			9.89
16.0		12.99	2.1	316	8.180			9.89
19.0		12.99	2.4	314	8.190			9.90

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.052	100E00		100E00	740E01	300E01
4.0	0.054					
7.0	0.053	000E00				
10.0	0.059					
13.0	0.054					
16.0	0.054					
19.0	0.054	000E00		000E00	360E01	180E01

C-REF-NO 115
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 41-57-12N
 LON 082-06-18W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1148

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 049

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.85	1.8	325	7.980			9.95
4.0		12.87	1.7	325	8.050			10.05
7.0		12.88	1.7	325	8.100			10.12
10.0		12.85	1.7	322	8.120			10.06
13.0		12.86	1.8	320	8.110			10.12
16.0		12.86	1.7	320	8.140			10.15
19.0		12.84	2.0	321	8.140			10.05

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.079	200E00		000E00	800E00	430E01
4.0	0.057					
7.0	0.064	000E00				
10.0	0.053					
13.0	0.064					
16.0	0.059					
19.0	0.051	000E00		000E00	500E00	240E01

C-REF-NO 115
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 42-06-24N
 LON 081-56-57W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1334

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 050

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		12.71	2.3	326	8.020			10.04
4.0		12.78	2.2	319	8.060			10.12
7.0		12.78	1.7	317	8.090			10.10
10.0		12.76	2.0	317	8.100			10.18
13.0		12.77	2.1	321	8.100			10.10
16.0		12.77	1.7	319	8.110			10.07
19.0		12.77	2.0	320	8.110			10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.067	000E00		000E00	130E01	330E01
4.0	0.057					
7.0	0.068	100E00				
10.0	0.068					
13.0	0.068					
16.0	0.074					
19.0	0.104	500E00		000E00	800E00	110E01

C-REF-NO 115
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 42-13-00N
 LON 082-03-33W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1510

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 051

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.5	12.02	5.6	328	8.280			10.35
4.0		12.03	5.8	318	8.320			10.30
7.0		12.05	5.6	317	8.340			10.29
10.0		12.02	6.2	309	8.350			10.30
13.0		12.03	5.8	318	8.360			10.32

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.034	000E00		000E00	420E01	180E01
4.0	0.027					
7.0	0.013	000E00				
10.0	0.023					
13.0	0.019	000E00		000E00	260E01	700E00

C-REF-NO 115
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 42-16-06N
 LON 081-48-30W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1729

NO. DEPTHS 05
 SOUNDING 0155
 BT SLIDE NO 052

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		12.31	15.0	330	8.170			10.07
4.0		12.31	15.0	327	8.210			10.12
7.0		12.32	16.0	319	8.220			10.10
10.0		12.28	16.0	314	8.230			10.04
13.0		12.32	17.0	323	8.210			10.07

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.044					
4.0	0.040					
7.0	0.042					
10.0	0.036					
13.0	0.043					

C-REF-NO 115
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 42-26-15N
 LON 081-39-12W

YEAR 1967
 MONTH 10
 DAY 27
 TIME 1859

NO. DEPTHS 03
 SOUNDING 0119
 BT SLIDE NO 053

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		11.52	23.0	315	8.150			10.30
4.0		11.54	24.0	317	8.190			10.30
7.0		11.54	23.0	319	8.220			10.32

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.046					
4.0	0.027					
7.0	0.031					

C-REF-NO 115
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 41-37-21N
 LON 081-45-30W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 1626

NO. DEPTHS 06
 SOUNDING 0174
 BT SLIDE NO 054

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	0.8	12.20	15.0	318	8.040			9.98
4.0		12.21	14.0	327	8.060			9.93
7.0		12.22	13.0	322	8.090			9.95
10.0		12.19	13.5	316	8.100			9.96
13.0		12.22	13.0	324	8.110			9.93
16.0		12.21	13.0	319	8.120			10.09

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.060	470E01	420E01	000E00	380E02	250E02
4.0	0.067					
7.0	0.059	600E00				
10.0	0.062					
13.0	0.058					
16.0	0.064	700E00	000E00	000E00	140E02	840E01

C-REF-NO 115
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 41-32-03N
 LON 081-41-54W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 1737

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 055

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	0.5	11.98	14.0	327	8.080		10.15	0.055
4.0		12.00	13.5	323	8.090		10.06	0.058
7.0		12.03	13.5	322	8.100		10.10	0.057
10.0		12.04	14.0	320	8.110		10.06	0.055

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	000E00	000E00	000E00	220E02	200E02
4.0					
7.0	000E00				
10.0	000E00	000E00	000E00	190E02	180E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	192.0	93.7	25.9	39.200	7.900	1.200	11.600
4.0							
7.0							
10.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	27.0	130.4	
4.0				
7.0				
10.0				

C-REF-NO 115
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 41-34-57N
 LON 081-36-12W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 1830

NO. DEPTHS 04
 SOUNDING 0119
 BT SLIDE NO 056

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.8	11.79	12.0	313	8.160			10.02
4.0		11.80	10.0	307	8.170			10.01
7.0		11.80	15.0	313	8.180			10.01
10.0		11.73	13.0	313	8.170			9.95

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.055	400E01	200E00	400E00	650E02	340E02
4.0	0.055					
7.0	0.060	100E01				
10.0	0.059	400E01	000E00	300E00	400E02	220E02

C-REF-NO 115
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 41-39-27N
 LON 081-41-03W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 1925

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 057

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	0.8	12.25	11.0	315	8.130			9.89
4.0		12.26	12.0	314	8.130			9.89
7.0		12.27	12.0	315	8.120			9.79
10.0		12.26	9.0	315	8.120			9.90
13.0		12.27	12.0	315	8.130			9.89
16.0		12.24	10.0	314	8.130			9.89

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.059	000E00	000E00	000E00	570E02	470E02
4.0	0.066					
7.0	0.070	000E00				
10.0	0.062					
13.0	0.068					
16.0	0.064	000E00	000E00	000E00	250E02	200E02

C-REF-NO 115
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

LAT 41-44-54N
 LON 081-42-24W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 2025

NO. DEPTHS 07
 SOUNDING 0210
 BT SLIDE NO 058

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0	1.0	12.19	7.0	317	8.100			9.87
4.0		12.20	8.0	317	8.100			9.67
7.0		12.22	6.5	315	8.090			9.58
10.0		12.20	9.0	319	8.080			9.64
13.0		12.20	8.5	315	8.070			9.79
16.0		12.19	4.6	311	8.080			9.28
19.0		12.21	7.2	316	8.070			9.79

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.058	000E00		000E00	110E02	700E01
4.0	0.062					
7.0	0.066	000E00				
10.0	0.064					
13.0	0.064					
16.0	0.064					
19.0	0.068	000E00		000E00	840E01	600E01

C-REF-NO 115
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

LAT 41-55-15N
 LON 081-33-45W

YEAR 1967
 MONTH 10
 DAY 28
 TIME 2202

NO. DEPTHS 07
 SOUNDING 0228
 BT SLIDE NO 059

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	O2 W	T NO3
1.0	1.0	12.17	6.5	316	8.020		9.87	0.055
4.0		12.19	7.3	322	8.020		9.89	0.058
7.0		12.21	6.9	316	8.050		9.59	0.057
10.0		12.19	6.4	317	8.060		9.53	0.059
13.0		12.23	6.3	324	8.070		9.45	0.055
16.0		12.19	6.7	319	8.070		9.84	0.052
19.0		11.86	6.3	317	8.080		9.82	0.057

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	000E00	000E00	000E00	150E02	440E01
4.0					
7.0	000E00				
10.0					
13.0					
16.0					
19.0	000E00	000E00	000E00	960E01	560E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	192.0	93.7	24.7	39.200	7.900	1.300	12.000
4.0							
7.0							
10.0	190.0	93.7	25.6	39.200	7.900	1.300	12.000
13.0							
16.0							
19.0	189.0	93.7	24.9	39.200	7.900	1.300	12.000

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	27.5	130.4	
4.0				
7.0				
10.0	5	27.5	130.4	
13.0				
16.0				
19.0	5	30.0	130.4	

C-REF-NO 115
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 42-15-30N
 LON 081-32-00W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 0102

NO. DEPTHS 07
 SOUNDING 0238
 BT SLIDE NO 060

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		12.15	7.4	315	8.170			9.90
4.0		12.16	6.9	324	8.190			9.93
7.0		12.19	7.1	327	8.180			9.90
10.0		12.17	6.8	328	8.180			9.92
13.0		12.19	6.9	324	8.170			9.92
16.0		12.15	7.1	323	8.180			9.87
19.0		12.19	5.2	323	8.170			9.85

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.053	000E00		000E00	380E01	180E01
4.0	0.050					
7.0	0.049	000E00				
10.0	0.050					
13.0	0.055					
16.0	0.048					
19.0	0.048	000E00		000E00	190E01	120E01

C-REF-NO 115
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 42-41-36N
 LON 079-52-15W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1100

NO. DEPTHS 10
 SOUNDING 0329
 BT SLIDE NO 061

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		11.88	2.2	323	8.050			10.01
4.0		11.88	1.8	324	8.120			10.35
7.0		11.91	1.8	324	8.130			10.15
10.0		11.88	1.7	325	8.150			10.46
13.0		11.90	1.9	327	8.170			10.23
16.0		11.86	2.1	327	8.170			11.74
19.0		11.90	3.6	327	8.180			10.16
22.0		11.88	1.8	329	8.180			11.71
25.0		11.61	1.9	327	8.170			10.10
28.0		11.28	2.2	324	8.100			10.72

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.026	000E00		000E00	370E01	250E01
4.0	0.027					
7.0	0.025	000E00				
10.0	0.027					
13.0	0.025					
16.0	0.026					
19.0	0.024					
22.0	0.023	000E00				
25.0	0.048					
28.0	0.055	000E00		000E00	180E01	100E01

C-REF-NO 115
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-18N
 LON 079-55-57W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1147

NO. DEPTHS 04
 SOUNDING 0128
 BT SLIDE NO 062

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		9.39	4.5	331	8.080			10.72
4.0		9.39	4.6	325	8.100			10.84
7.0		9.39	4.7	325	8.090			10.88
10.0		9.35	5.5	329	8.120			11.23

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.072	100E00		000E00	350E01	210E01
4.0	0.074					
7.0	0.075	000E00				
10.0	0.073	000E00		000E00	200E01	110E01

C-REF-NO 115
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 42-46-12N
 LON 079-47-39W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1245

NO. DEPTHS 03
 SOUNDING 0183
 BT SLIDE NO 063

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
16.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		000E00		000E00	270E01	190E01
7.0		000E00				
16.0		000E00		000E00	300E01	130E01

C-REF-NO 115
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-12N
 LON 079-37-24W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1345

NO. DEPTHS 06
 SOUNDING 0201
 BT SLIDE NO 064

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.0	9.58	6.0	320	8.090			11.03
4.0		9.59	6.0	323	8.120			11.70
7.0		9.62	5.5	325	8.130			11.17
10.0		9.54	5.1	323	8.170			12.58
13.0		9.48	5.6	323	8.170			11.01
16.0		9.29	5.5	326	8.160			13.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.040	100E00	000E00	000E00	600E01	250E01
4.0	0.048					
7.0	0.050	800E00				
10.0	0.045					
13.0	0.041					
16.0	0.040	000E00	000E00	000E00	310E01	160E01

C-REF-NO 115
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 42-51-30N
 LON 079-34-36W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1432

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	0.5	7.70	24.0	626	8.150		10.98	1.270
4.0		7.24	19.0	647	8.140		11.09	1.380
7.0		6.75	18.0	644	8.170		11.08	1.370

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0					
4.0					
7.0					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	421.0	220.0	88.6	94.400	20.500	3.800	12.400
4.0							
7.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	40	20.5	320.2	
4.0				
7.0				

C-REF-NO 115
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 42-50-18N
LON 079-34-54W

YEAR 1967
MONTH 10
DAY 29
TIME 1512

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 065

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0	1.0	9.23	12.0	325	8.200		11.05	0.043
4.0		9.37	9.0	327	8.240		11.46	0.043
7.0		9.29	11.0	328	8.220		11.06	0.039
10.0		8.53	28.0	391	8.120		11.18	0.230

DEPTH	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0					
4.0					
7.0					
10.0					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	194.0	97.6	25.5	40.000	8.000	1.300	11.200
4.0							
7.0							
10.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	26.0	132.8	
4.0				
7.0				
10.0				

C-REF-NO 115
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 42-40-18N
 LGN 079-36-12W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1646

NO. DEPTHS 10
 SOUNDING 0302
 BT SLIDE NO 066

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.5	11.98	4.9	325	8.250			10.09
4.0		12.01	4.8	330	8.250			10.12
7.0		12.02	4.9	331	8.280			10.10
10.0		11.99	4.9	322	8.250			10.07
13.0		12.00	4.8	326	0.821			10.07
16.0		11.96	5.1	322	8.240			10.06
19.0		11.98	5.0	321	8.260			10.02
22.0		11.42	4.7	328	8.240			10.15
25.0		11.28	4.4	321	8.250			10.21
28.0		11.22	6.8	318	8.250			10.12

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.031	300E00		000E00	210E01	150E01
4.0	0.021					
7.0	0.021	000E00				
10.0	0.019					
13.0	0.024					
16.0	0.023					
19.0	0.018					
22.0	0.020	000E00				
25.0	0.029					
28.0	0.029	000E00		000E00	150E01	110E01

C-REF-NO 115
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

LAT 42-30-03N
 LON 079-37-15W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 1832

NO. DEPTHS 13
 SOUNDING 0448
 BT SLIDE NO 067

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	3.0	11.56	2.3	321	8.230			9.87
4.0		11.51	4.2	319	8.230			10.18
7.0		11.47	2.7	319	8.220			10.15
10.0		11.44	2.3	320	8.210			10.12
13.0		11.44	2.8	320	8.210			10.12
16.0		11.42	3.3	320	8.200			10.13
19.0		11.44	2.5	319	8.190			10.09
22.0		11.43	2.2	320	8.200			10.09
25.0		11.42	2.1	320	8.190			10.02
28.0		11.44	2.7	321	8.210			10.07
31.0		11.42	1.5	319	8.200			10.04
37.0		11.41	2.7	320	8.190			10.09
43.0		11.38	2.2	318	8.200			10.06

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.065	000E00		000E00	300E01	120E01
4.0	0.068					
7.0	0.064	000E00				
10.0	0.064					
13.0	0.061					
16.0	0.065					
19.0	0.067					
22.0	0.056	000E00				
25.0	0.059					
28.0	0.062					
31.0	0.064					
37.0	0.068					
43.0	0.069	000E00		000E00	290E01	190E01

C-REF-NO 115
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT	42-20-12N
LON	079-38-51W

YEAR	1967
MONTH	10
DAY	29
TIME	1952

NO. DEPTHS	05
SOUNDING	0165
BT SLIDE NO	068

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	1.5	11.03	4.3	316	8.250			10.30
4.0		11.13	4.5	316	8.250			10.58
7.0		10.95	4.6	318	8.230			10.43
10.0		10.90	4.2	318	8.230			10.35
13.0		10.42	6.7	319	8.220			10.38

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	120E01		000E00	420E01	240E01
4.0	0.024					
7.0	0.025	600E00				
10.0	0.029					
13.0	0.024	300E01		000E00	600E01	140E01

C-REF-NO 115
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 42-31-36N
 LON 079-19-21W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 2158

NO. DEPTHS 04
 SOUNDING 0183
 BT SLIDE NO 069

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0	2.5	11.22	4.9	321	8.240			10.50
4.0		11.24	4.5	320	8.250			10.41
7.0		11.26	5.3	318	8.250			10.21
10.0		11.20	4.9	319	8.240			10.36

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.038	000E00		000E00	500E01	160E01
4.0	0.039					
7.0	0.039	000E00				
10.0	0.033	500E00		000E00	150E01	900E00

C-REF-NO 115
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 42-33-21N
 LON 079-14-21W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 2247

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 070

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		10.94	6.5	309	8.240			10.44
4.0		10.96	5.0	319	8.220			10.49
7.0		10.99	5.2	319	8.220			10.49
10.0		10.96	5.5	319	8.220			10.49
13.0		10.88	5.0	320	8.220			10.49
16.0		10.51	5.5	319	8.210			10.60

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.038	480E01		500E00	180E01	180E01
4.0	0.033					
7.0	0.036	190E01				
10.0	0.036					
13.0	0.036					
16.0	0.039	620E01		600E00	210E01	140E01

C-REF-NO 115
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 42-39-45N
 LON 079-06-36W

YEAR 1967
 MONTH 10
 DAY 29
 TIME 2359

NO. DEPTHS 05
 SOUNDING 0146
 BT SLIDE NO 071

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0		10.95	4.2	318	8.100			10.50
4.0		11.16	3.9	319	8.140			10.49
7.0		11.17	4.0	319	8.150			10.35
10.0		11.12	3.9	319	8.160			10.44
13.0		10.73	5.6	320	8.160			10.44

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.023	320E01		100E00	360E01	180E01
4.0	0.024					
7.0	0.022	260E01				
10.0	0.032					
13.0	0.037	650E01		400E00	380E01	410E01

C-REF-NO 115
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 42-43-51N
 LON 079-07-36W

YEAR 1967
 MONTH 10
 DAY 30
 TIME 0040

NO. DEPTHS 03
 SOUNDING 0192
 BT SLIDE NO 072

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	02 W
1.0								
7.0								
16.0								

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0		300E00		000E00	400E01	230E01
7.0		700E00				
16.0		000E00		000E00	210E01	110E01

C-REF-NO 115
CONS. NO 075

COUNTRY 18
INSTITUTE 22

LAT 42-49-03N
LON 078-55-06W

YEAR 1967
MONTH 10
DAY 30
TIME 0205

NO. DEPTHS 04
SOUNDING 0119
BT SLIDE NO 073

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	02 W	T NO3
1.0		10.84	5.3	326	8.190		10.44	0.020
4.0		10.90	4.8	331	8.180		10.77	0.018
7.0		10.92	5.0	328	8.180		10.57	0.018
10.0		10.90	4.9	327	8.170		11.23	0.018

DEPTH	MF CDL	MF FCO	MF STR	SPC 20	SPC 35
1.0	120E01		100E00	250E01	240E01
4.0					
7.0	000E00				
10.0	900E00		000E00	400E01	190E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	191.0	94.7	25.8	38.800	8.000	1.300	11.200
4.0							
7.0							
10.0							

DEPTH	HAZEN	CL	HARD	BOD W
1.0	5	26.0	129.8	
4.0				
7.0				
10.0				

C-REF-NO 115
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 42-48-30N
 LON 079-02-42W

YEAR 1967
 MONTH 10
 DAY 30
 TIME 0324

NO. DEPTHS 06
 SOUNDING 0183
 BT SLIDE NO 074

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0			6.6	325	8.180			10.41
4.0		11.11	5.6	328	8.200			10.44
7.0		11.14	5.8	323	8.210			10.44
10.0		11.11	7.1	326	8.260			10.41
13.0		10.98	8.6	326	8.230			10.35
16.0		10.91	11.0	332	8.230			10.33

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.022	110E01		000E00	300E01	270E01
4.0	0.043					
7.0	0.018	130E01				
10.0	0.018					
13.0	0.017					
16.0	0.020	270E01		000E00	400E01	200E01

C-REF-NO 115
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 42-49-00N
 LON 079-10-42W

YEAR 1967
 MONTH 10
 DAY 30
 TIME 0429

NO. DEPTHS 07
 SOUNDING 0201
 BT SLIDE NO 075

DEPTH	SECCHI	TEMP	TURB	SP CON	PH 25	TC ALK	BOD W	O2 W
1.0		10.70	3.5	329	8.170			10.60
4.0		10.76	3.5	334	8.220			10.60
7.0		10.76	4.1	331	8.240			10.61
10.0		10.72	3.9	328	8.240			10.63
13.0		10.69	4.0	332	8.240			10.64
16.0		10.71	4.1	325	8.240			10.57
19.0		10.63	3.7	324	8.220			10.54

DEPTH	T NO3	MF COL	MF FCO	MF STR	SPC 20	SPC 35
1.0	0.026	000E00		000E00	210E01	400E01
4.0	0.026					
7.0	0.027	000E00				
10.0	0.027					
13.0	0.027					
16.0	0.032					
19.0		000E00		000E00	290E01	290E01