

DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # PEA

DATE 3-2-76

TIME 13:35

LAKE PEARL LAKE COUNTY WAUSHARA TN 19 N R 12 E SEC. 30

SAMPLE LOCATION MIDDLE OF CHANNEL - OFF PUBLIC LANDING

WIND DIR. & INTEN. NE 10 20 <sup>1 gusting higher</sup> SAMPLE TYPE \_\_\_\_\_

CLOUD COVER HEAVY SAMPLE VOLUME \_\_\_\_\_

WATER SURF. COND. ICE CHLORO. a \_\_\_\_\_

TURBIDITY .7 JTU BIOMASS \_\_\_\_\_

SAMPLE DEPTH 1 METER PRESERVATIVE/CONC. \_\_\_\_\_

FIELD REMARKS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LAB DATA

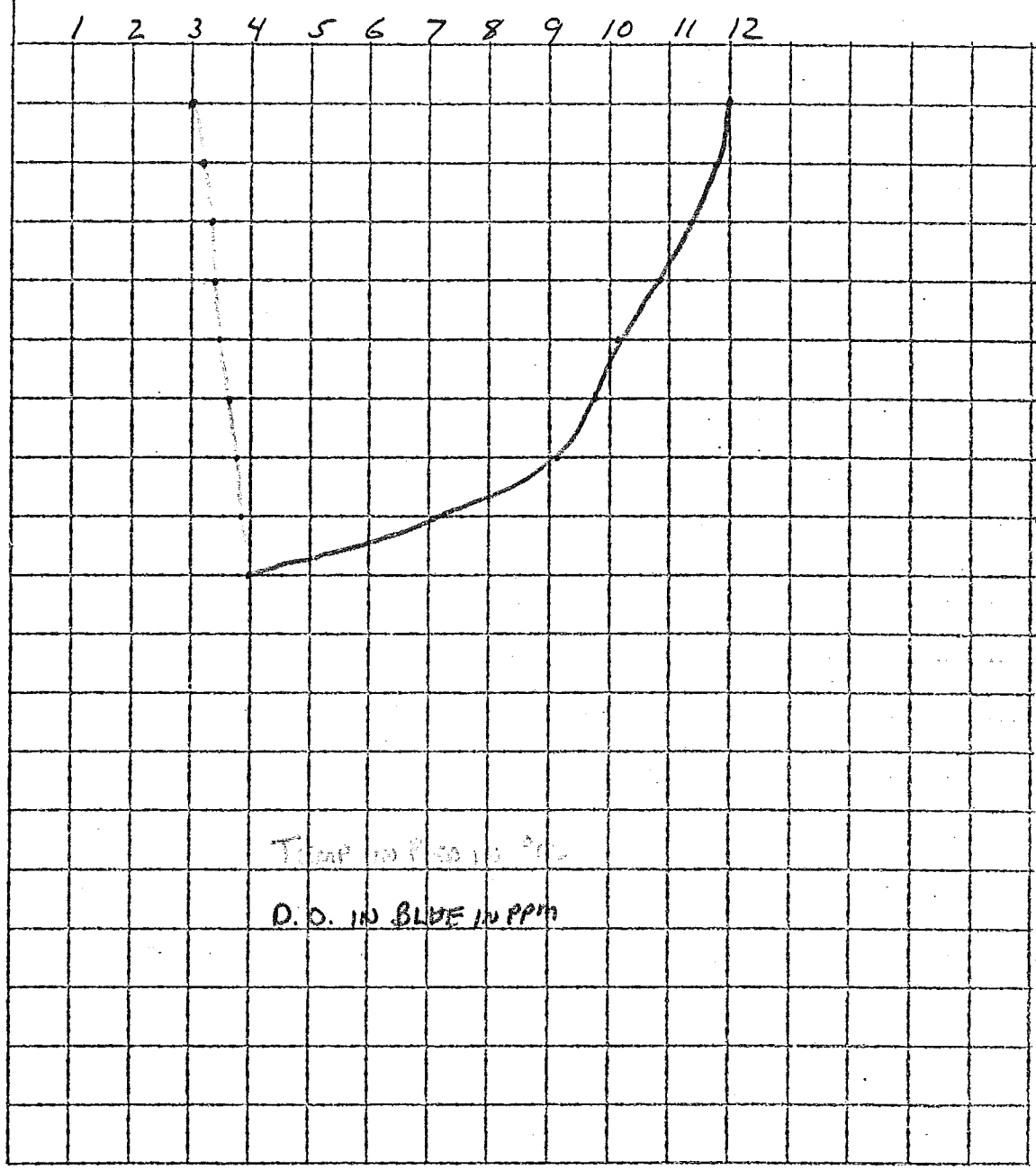
TOT. ALKALINITY (Ca CO <sub>3</sub> )	<u>116</u>	TOT. - P	<u>019</u>
HARDNESS (AS Ca CO <sub>3</sub> )	<u>121</u>	SOL. - P	<u>003</u>
CHLOROPHYLL a	<u>    </u>	TOT. ORG. - N	<u>49</u>
BIOMASS - VOL SOLIDS	<u>    </u>	AMMONIA - N	<u>08</u>
Ca	<u>24</u>	NO <sub>2</sub> -N+NO <sub>3</sub> -N	<u>09</u>
Mg	<u>1.6</u>	K	<u>7</u>
Na	<u>2</u>	SO <sub>4</sub>	<u>6</u>
		Cl <sup>-</sup>	<u>&lt;1</u>

COLLECTED BY DRH +KFH

DEPTH	TEMP.	O <sub>2</sub>
1	3.0	12.0
2	3.2	11.7
3	3.4	11.3
4	3.4	10.9
5	3.4	10.1
6	3.5	9.8
7	3.8	9.1
8	3.9	7.3
9	4.0	4.0
10		

DEPTH IN METERS

OXYGEN, TEMPERATURE



TEMP IN F AND C °C  
D.O. IN BLUE IN PPM

FIELD DATA

CONDUCTIVITY 215

DEPTH \_\_\_\_\_

pH 8.3

DEPTH 1 METER

SECCHI DISK \_\_\_\_\_

MAXIMUM DEPTH \_\_\_\_\_

COLLECTION DATE

3-2-76

SURFACE WATER CHEMISTRY & BACTERIOLOGY  
FORM 3200-25

Collected By HELF Field No. 112 Station, Est. Form Required Yes  No   
 999 - Misc. Sample Only  
 Sample Description PEARL LAKE - MIDDLE OF LAKE  
(LAKE SURVEY)

BOD Estimate            MFFCC Estimate             
 Send Report To: Department of Natural Resources  
P. O. Box 3600  
Green Bay, Wisconsin 54303

Shaded Areas for Lab Use Only  
 Primary Sta. No. 086446  
 Collection Date 7 6 0 3 0 2  
 Y M D  
 Time (24 Hr. Clock) 1 3:35  
 Depth of Sample O-Surface M  
 F or M

<input type="checkbox"/> 026	BOD-5 Tot.	<u>          </u>
<input type="checkbox"/> 134	MFFCC*	<u>          </u>
<input type="checkbox"/> 097	pH (su) Lab.	<u>          </u>
<input type="checkbox"/> 128	Tot. Solids	<u>          </u>
<input type="checkbox"/> 107	Vol. Tot. Solids	<u>          </u>
<input type="checkbox"/> 106	Susp. Solids	<u>          </u>
<input type="checkbox"/> 109	Vol. Susp. Solids	<u>          </u>
<input checked="" type="checkbox"/> 100	Tot.-P	<u>0 19</u>
<input checked="" type="checkbox"/> 136	Sol.-P	<u>0 0 3</u>
<input checked="" type="checkbox"/> 039	Tot. Org-N	<u>0 4 9</u>
<input checked="" type="checkbox"/> 096	Ammonia-N	<u>0 0 8</u>
<input checked="" type="checkbox"/> 085	NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>0 0 9</u>
<input checked="" type="checkbox"/> 002	Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>1 1 6</u>
<input checked="" type="checkbox"/> 035	Chlorides	<u>4 1</u>
<input type="checkbox"/> 043	Color (su)	<u>          </u>
<input checked="" type="checkbox"/> 114	Conductivity (µmhos)	<u>2 1 5</u>
<input checked="" type="checkbox"/> 088	Hardness (as CaCO <sub>3</sub> )	<u>1 2 1</u>
<input checked="" type="checkbox"/> 119	Turbidity (JTU)	<u>0 7</u>
<input type="checkbox"/>		<u>          </u>
<input type="checkbox"/>		<u>          </u>
<input type="checkbox"/>		<u>          </u>
<input type="checkbox"/>		<u>          </u>
<input type="checkbox"/>		<u>          </u>

Date Received MAR 3 76 5 7 8 8 7  
 Lab. No.           

All analyses reported in mg/l unless otherwise specified.  
 Samples for both water chemistry and water bacteriology should be submitted in separate bottles.  
 S. L. Ingers, M.D., Director  
 Wisconsin State Laboratory of Hygiene  
 Date Reported MAR 19 1976 - 3

LOCATION 703014 DATE 760302 TIME 1335 DEPTH M001 LAB-SLIP-# 057882 END-DATE END-TIME  
 PEARL LAKE

TEST-#	STORET-#	TEST--NAME--AND--UNITS	TEST-VALUE
		EXTRA INFORMATION ABOUT SAMPLE: HELF	
		EXTRA INFORMATION ABOUT SAMPLE: PEA	
131	00010	WATER TEMP CENT	3.0
091	00300	DO MG/L	12.0
096	00400	PH SU	8.3
032	00916	CALCIUM CA-TOT MG/L	24
076	00927	MGNISIUM MG, TOT MG/L	16
101	00937	PTSSIUM K, TOT MG/L	0.7
113	00929	SODIUM NA, TOT MG/L	2
116	00945	SULFATE SO4-TOT MG/L	6
100	00665	PHOS-TOT MG/L P	0.019
136	00671	PHOS-DIS ORTHO MG/L P	0.003
088	00605	ORG N N MG/L	0.49
086	00610	NH3-N TOTAL MG/L	0.08
085	00630	NO2&NO3 N-TOTAL MG/L	0.09
002	00410	T ALK CAC03 MG/L	116
035	00940	CHLORIDE CL MG/L	<1
114	00095	CNDUCTVY AT 25C MICROMHO	215
068	00900	TOT HARD CAC03 MG/L	121
119	00076	TURB TRBIDMTR HACH FTU	0.7



DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # PEA  
DATE 5-13-76  
TIME 11:05

LAKE PEARL LAKE COUNTY WAUSHARA T<sup>N</sup> 19N R 12E SEC. 30

SAMPLE LOCATION MIDDLE OF EAST PORTION

WIND DIR. & INTEN. SE LIGHT

SAMPLE TYPE KEMMER

CLOUD COVER OVERCAST

SAMPLE VOLUME \_\_\_\_\_

WATER SURF. COND. 0-6"

CHLORO. a \_\_\_\_\_

TURBIDITY < .6

BIOMASS \_\_\_\_\_

SAMPLE DEPTH 7 METERS

PRESERVATIVE/CONC. \_\_\_\_\_

FIELD REMARKS:

50'

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) 1 2 2

TOT. - P 0 1 3

HARDNESS (AS Ca CO<sub>3</sub>) 1 2 4

SOL. - P 0 0 5

CHLOROPHYLL a \_\_\_\_\_

TOT. ORG. - N 3 3

BIOMASS - VOL SOLIDS \_\_\_\_\_

AMMONIA - N 1 1

Ca 25

NO<sub>2</sub>-N+NO<sub>3</sub>-N 2 0 2

Mg 15

K 6

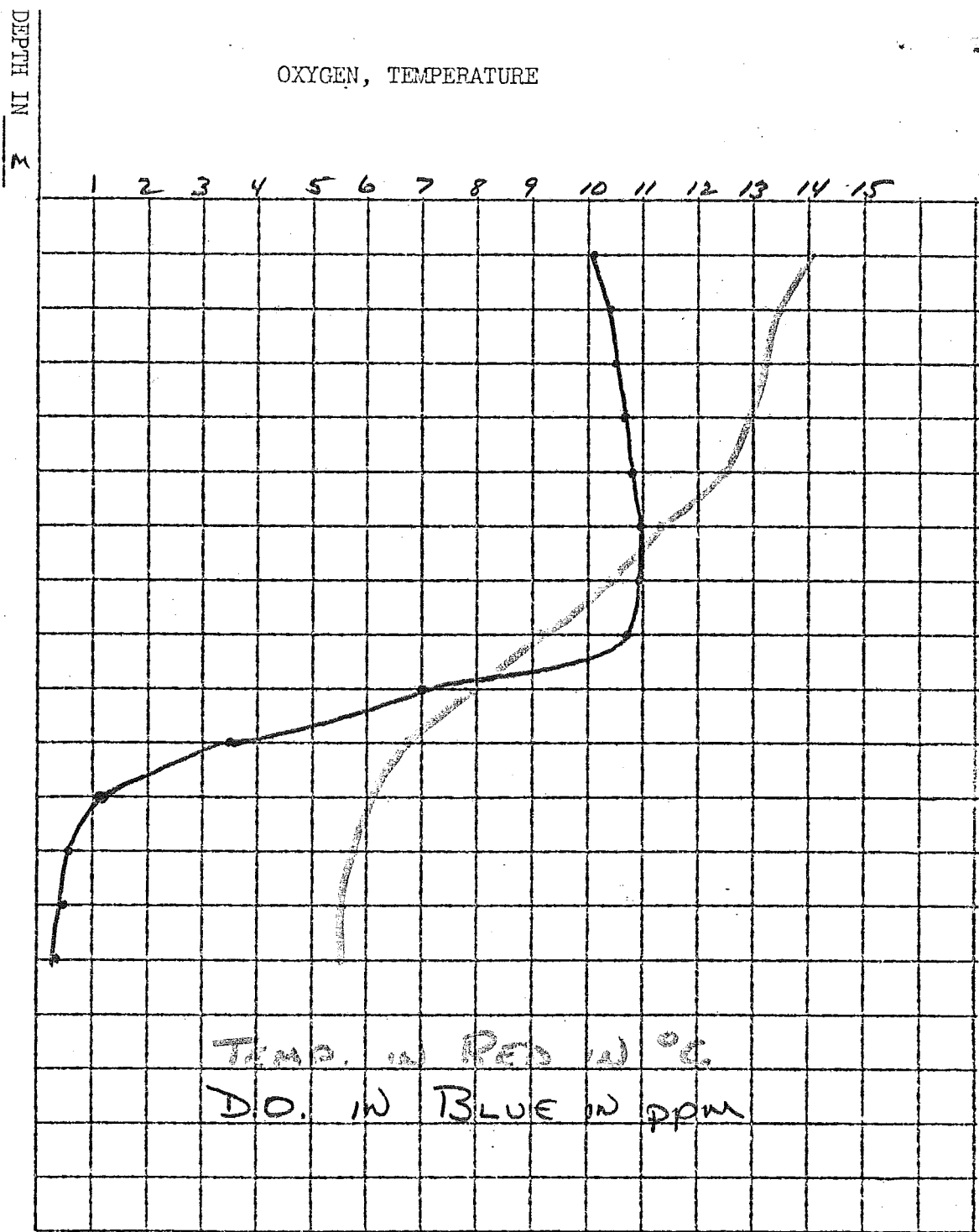
Na 1

SO<sub>4</sub> 5

Cl < 1

COLLECTED BY KFH, DRH

DEPTH	TEMP.	O <sub>2</sub>
1	14.0	10.1
2	13.5	10.4
3	13.2	10.5
4	12.9	10.7
5	12.5	10.8
6	11.3	10.9
7	10.4	10.9
8	9.2	10.7
9	7.9	7.0
10	6.8	3.4
11	6.1	1.1
12	5.8	0.6
13	5.6	0.5
14	5.6	0.4



FIELD DATA

CONDUCTIVITY 228

pH 4.0

SECCHI DISK

MAXIMUM DEPTH

COLLECTION DATE

DEPTH 7 METERS

DEPTH " "

6 METERS

5-13-76

Department of Natural Resources SURFACE WATER CHEMISTRY & BACTERIOLOGY  
FORM 3200-35

Collected By 999 <u>HELP</u> Misc. Sample Only	Field No. <u>PEA</u>	Basin No. <u>112</u>	Sta. Est. Form Required Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Sample Description  
PEARL LAKE - MIDDLE OF LAKE (LAKE SURVEY)

BOD Estimate \_\_\_\_\_ MFFCC Estimate \_\_\_\_\_

Send Report To:

Name	Department of Natural Resources
Address	P. O. Box 3600
City, State, Zip Code	Green Bay, Wisconsin 54303

Shaded Areas for Lab Use Only <u>081440</u>	<input type="checkbox"/> 026 BOD-5 Tot.	_____
Primary Sta. No. <u>703014</u>	<input type="checkbox"/> 134 MFFCC*	_____
Collection Date <u>760513</u> Y Y M M D D	<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>8.</u>
Time (24 Hr. Clock) <u>11:05</u>	<input type="checkbox"/> 138 Tot. Solids	_____
Depth of Sample O-Surface <u>M 007</u> For M	<input type="checkbox"/> 107 Vol. Tot. Solids	_____
	<input type="checkbox"/> 106 Susp. Solids	_____
	<input type="checkbox"/> 109 Vol. Susp. Solids	_____
	<input checked="" type="checkbox"/> 100 Tot.-P	<u>.0</u>
131 Temp (°C) Field <u>10.4</u>	<input checked="" type="checkbox"/> 136 Sol.-P	<u>.00</u>
091 DO Field <u>10.9</u>	<input checked="" type="checkbox"/> 089 Tot. Org-N	<u>.3</u>
083 pH (su) Field <u>8.0</u>	<input checked="" type="checkbox"/> 086 Ammonia-N	<u>.11</u>
128 Flow cfs _____	<input checked="" type="checkbox"/> 085 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>&lt;.0</u>
132 Secchi Depth (Meters) <u>6.0</u>	<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>120</u>
133 Cloud Cover _____	<input checked="" type="checkbox"/> 035 Chlorides	<u>&lt;</u>
	<input type="checkbox"/> 043 Color (su)	_____
<input checked="" type="checkbox"/> 032 Calcium <u>25</u>	<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>225</u>
<input checked="" type="checkbox"/> 076 Magnesium <u>15</u>	<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	<u>121</u>
<input checked="" type="checkbox"/> 101 Potassium <u>.6</u>	<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>5.6</u>
<input checked="" type="checkbox"/> 113 Sodium <u>1</u>	<input type="checkbox"/> _____	_____
<input checked="" type="checkbox"/> 116 Sulfates <u>5</u>	<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	_____

All analyses reported in mg/l unless otherwise specified.  
\*Samples for both water chemistry and water bacteriology should be submitted in separate bottles.

Date Received MAY 14 76 72513

Lab. No. \_\_\_\_\_

Date Reported MAY 26 1976 - 3

S. L. Inhorn, M.D., Director  
Wisconsin State Laboratory of Hygiene  
Madison, Wisconsin 53706





DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # PEA

DATE 8-12-76

TIME 12:10

LAKE PEARL LAKE COUNTY WAUSHARA TN 19N R 12E SEC. 30

SAMPLE LOCATION MIDDLE OF EAST PORTION

WIND DIR. & INTEN. SW MODERATE SAMPLE TYPE KEMMER

CLOUD COVER LIGHT SCATTERED SAMPLE VOLUME \_\_\_\_\_

WATER SURF. COND. 6" - 18" MOTOR BOATS CHLORO. a \_\_\_\_\_

TURBIDITY 1.0 NTU BIOMASS \_\_\_\_\_

SAMPLE DEPTH 6+12 METERS PRESERVATIVE/CONC. \_\_\_\_\_

FIELD REMARKS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LAB DATA	6m	M12	6m	M12
TOT. ALKALINITY (Ca CO <sub>3</sub> )	112	128	TOT. - P .02	.28
HARDNESS (AS Ca CO <sub>3</sub> )	120	136	SOL. - P <.003	.21
CHLOROPHYLL a	_____	_____	TOT. ORG. - N.30	.42
BIOMASS - VOL SOLIDS	_____	_____	AMMONIA - N .07	.08
Ca	22	27	NO <sub>2</sub> -N+NO <sub>3</sub> -N <.02	<.02
Mg	16	17	K .52	.82
Na	1	2	SO <sub>4</sub> .50	4
			Cl <sup>-</sup> <1.0	<1.

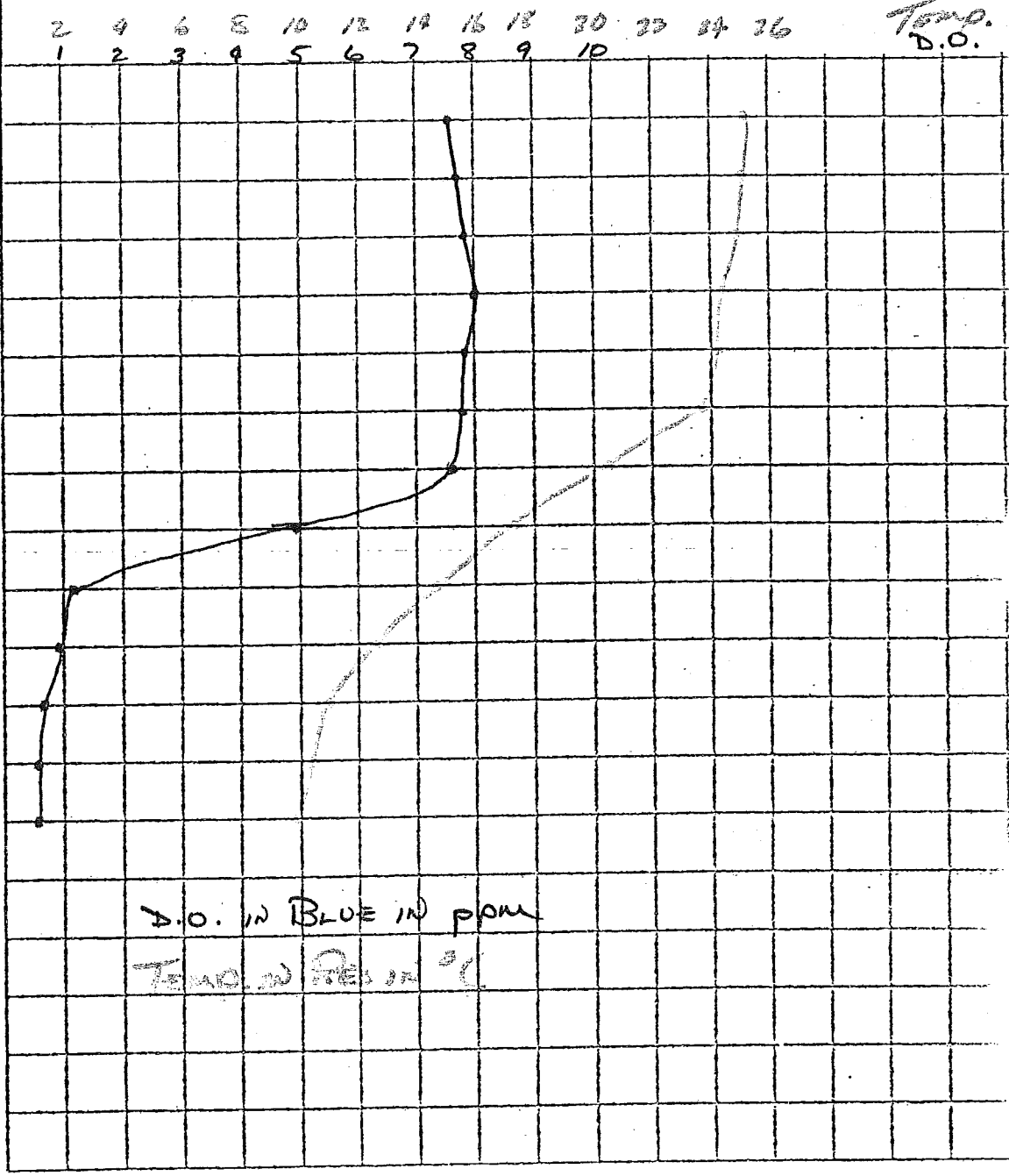
COLLECTED BY ORH, KEH

OXYGEN, TEMPERATURE

DEPTH IN METERS

Temp.  
D.O.

DEPTH	TEMP.	O <sub>2</sub>
1	25.2	7.6
2	25.1	7.7
3	25.0	7.8
4	24.5	8.0
5	24.2	7.8
6	23.7	7.8
7	20.6	7.6
8	17.3	4.9
9	14.7	1.2
10	12.5	0.9
11	11.0	0.7
12	10.2	0.6
13	9.9	0.55
14		



D.O. IN BLUE IN ppm  
TEMP. IN DEGREES C

FIELD DATA M6 M12  
 CONDUCTIVITY 208 238  
 6M PEA -1 8.4  
 pH 12M PE2 7.2  
 SECCHI DISK  
 MAXIMUM DEPTH  
 COLLECTION DATE

DEPTH 6 METERS  
 DEPTH 12 " " " " " "  
 DEPTH 6 " " " " " "  
 DEPTH 12 " " " " " "  
 4.5 " " " " " "  
 8-12-76

Collected By HELF Field No. PEA Basin No. 112 Sta. Est. Form Required Yes  No

999 Misc. Sample Only

Sample Description PEARL LAKE (LAKE SURVEY)

BOD Estimate \_\_\_\_\_ MFFCC Estimate \_\_\_\_\_

Send Report To: Department of Natural Resources

Name P. O. Box 3600

Address Green Bay, Wisconsin 54303

City, State, Zip Code

Shaded Areas for Lab Use Only		<input type="checkbox"/> 023 BOD-5 Tot.	<u>081440</u>
Primary Sta. No.		<input type="checkbox"/> 194 MFFCC*	<u>703014</u>
Collection Date		<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>760812</u>
Time (24 Hr. Clock)		<input type="checkbox"/> 136 Tot. Solids	<u>12:15</u>
Depth of Sample O-Surface		<input type="checkbox"/> 107 Vol. Tot. Solids	<u>M</u>
Temp (°C) Field		<input type="checkbox"/> 106 Susp. Solids	<u>10.2</u>
DO Field		<input type="checkbox"/> 109 Vol. Susp. Solids	<u>0.6</u>
pH (su) Field		<input checked="" type="checkbox"/> 100 Tot.-P	<u>7.2</u>
Flow cfs		<input checked="" type="checkbox"/> 136 Sol.-P	<u>—</u>
Secchi Depth (Meters)		<input checked="" type="checkbox"/> 083 Tot. Org-N	<u>—</u>
Cloud Cover		<input checked="" type="checkbox"/> 095 Ammonia-N	<u>—</u>
Calcium		<input checked="" type="checkbox"/> 005 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>27</u>
Magnesium		<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>17</u>
Potassium		<input checked="" type="checkbox"/> 035 Chlorides	<u>0.82</u>
Sodium		<input type="checkbox"/> 043 Color (su)	<u>2</u>
Sulfates		<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>4</u>
		<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	
		<input checked="" type="checkbox"/> 119 Turbidity (JTU)	
		<input type="checkbox"/> 113 Sodium	
		<input type="checkbox"/> 116 Sulfates	

All analyses reported in mg/l unless otherwise specified.

\*Samples for both water chemistry and water bacteriology should be submitted in separate bottles.

S. L. Inhorn, M.D., Director  
Wisconsin State Laboratory of Hygiene  
Madison, Wisconsin 53706

Date Received AUG 13 1976 12331

Lab. No. \_\_\_\_\_

Date Reported AUG 27 1976 14

Collected By HELF Field No. PEA Basin No. 112 Sta. Est. Form Required Yes  No

999 Misc. Sample Only

Sample Description PEARL LAKE (LAKE SURVEY)

BOD Estimate \_\_\_\_\_ MFFCC Estimate \_\_\_\_\_

Send Report To: Department of Natural Resources

Name P. O. Box 3600

Address Green Bay, Wisconsin 54303

City, State, Zip Code

Shaded Areas for Lab Use Only		<input type="checkbox"/> 023 BOD-5 Tot.	<u>081440</u>
Primary Sta. No.		<input type="checkbox"/> 194 MFFCC*	<u>703014</u>
Collection Date		<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>760812</u>
Time (24 Hr. Clock)		<input type="checkbox"/> 136 Tot. Solids	<u>12:10</u>
Depth of Sample O-Surface		<input type="checkbox"/> 107 Vol. Tot. Solids	<u>M</u>
Temp (°C) Field		<input type="checkbox"/> 106 Susp. Solids	<u>6</u>
DO Field		<input checked="" type="checkbox"/> 100 Tot.-P	<u>23.7</u>
pH (su) Field		<input checked="" type="checkbox"/> 136 Sol.-P	<u>2.6</u>
Flow cfs		<input checked="" type="checkbox"/> 083 Tot. Org-N	<u>8.4</u>
Secchi Depth (Meters)		<input checked="" type="checkbox"/> 095 Ammonia-N	<u>—</u>
Cloud Cover		<input checked="" type="checkbox"/> 005 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>4.5</u>
Calcium		<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>—</u>
Magnesium		<input checked="" type="checkbox"/> 035 Chlorides	<u>22</u>
Potassium		<input type="checkbox"/> 043 Color (su)	<u>16</u>
Sodium		<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>0.52</u>
Sulfates		<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	<u>1</u>
		<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>5</u>
		<input type="checkbox"/> 113 Sodium	
		<input type="checkbox"/> 116 Sulfates	

All analyses reported in mg/l unless otherwise specified.

\*Samples for both water chemistry and water bacteriology should be submitted in separate bottles.

S. L. Inhorn, M.D., Director  
Wisconsin State Laboratory of Hygiene  
Madison, Wisconsin 53706

Date Received AUG 13 1976 12330

Lab. No. \_\_\_\_\_

Date Reported AUG 27 1976 14



DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # PEA

DATE 11-16-76

TIME 11:15

LAKE PEARL LAKE COUNTY WAUSHARA TN 19N R 12E SEC. 30

SAMPLE LOCATION MIDDLE OF EAST PORTION

WIND DIR. & INTEN. \_\_\_\_\_

SAMPLE TYPE KEMMER

CLOUD COVER \_\_\_\_\_

SAMPLE VOLUME \_\_\_\_\_

WATER SURF. COND. FROZEN-OPEN

CHLORO. a \_\_\_\_\_

TURBIDITY \_\_\_\_\_

BIOMASS \_\_\_\_\_

SAMPLE DEPTH 1 METERS

PRESERVATIVE/CONC. \_\_\_\_\_

FIELD REMARKS:

Oak - W. Pine, W. Birch

Lake Nearly 100% developed 220 units - subdivisions

Chora near landing

Good landing - no parking - must go up on road

Has PEARL Lake RESORT, Campground, area very commercialized

SANDY BOTTOM - BENCHES Skiing 11-4pm otherwise 10 mph

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) \_\_\_\_\_

TOT. - P \_\_\_\_\_

HARDNESS (AS Ca CO<sub>3</sub>) \_\_\_\_\_

SOL. - P \_\_\_\_\_

CHLOROPHYLL a \_\_\_\_\_

TOT. ORG. - N \_\_\_\_\_

BIOMASS - VOL SOLIDS \_\_\_\_\_

AMMONIA - N \_\_\_\_\_

Ca \_\_\_\_\_

NO<sub>2</sub>-N+NO<sub>3</sub>-N \_\_\_\_\_

Mg \_\_\_\_\_

K \_\_\_\_\_

Na \_\_\_\_\_

SO<sub>4</sub> \_\_\_\_\_

COLLECTED BY DRA, KFA



Department of Natural Resources

**SURFACE WATER CHEMISTRY & BACTERIOLOGY**  
FORM 3200-35

Collected By 999 <u>HILF</u> Misc. Sample Only	Field No. <u>PEA</u>	Basin No. <u>112</u>	Sta. Est. Form Required Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
--	-------------------------	-------------------------	--

Sample Description PEARL LAKE  
(LAKE SURVEY)

BOD Estimate \_\_\_\_\_ MFFCC Estimate \_\_\_\_\_

Send Report To:

Name	<u>Department of Natural Resources</u>
Address	<u>P. O. Box 3600</u>
City, State, Zip	<u>Green Bay, Wisconsin 54303</u>

Shaded Areas for Lab Use Only		<u>081440</u>	<input type="checkbox"/> 026 BOD-5 Tot.	_____
Primary Sta. No.	<u>703014</u>		<input type="checkbox"/> 134 MFFCC*	_____
Collection Date	<u>76 11 16</u> Y Y M M D D		<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>7.6</u>
Time (24 Hr. Clock)	<u>11:15</u>		<input type="checkbox"/> 138 Tot. Solids	_____
Depth of Sample O-Surface	<u>M 0.1</u> F or M		<input type="checkbox"/> 107 Vol. Tot. Solids	_____
131 Temp (°C) Field	<u>4.3</u>		<input type="checkbox"/> 106 Susp. Solids	_____
091 DO Field	<u>12.5</u>		<input type="checkbox"/> 109 Vol. Susp. Solids	_____
096 pH (su) Field	<u>8.1</u>		<input checked="" type="checkbox"/> 100 Tot.-P	<u>.06</u>
120 Flow cfs	_____		<input checked="" type="checkbox"/> 136 Sol.-P	<u>.033</u>
132 Secchi Depth (Meters)	_____		<input checked="" type="checkbox"/> 088 Tot. Org-N	<u>.37</u>
133 Cloud Cover	_____		<input checked="" type="checkbox"/> 086 Ammonia-N	<u>.04</u>
<input checked="" type="checkbox"/> 032 Calcium	<u>24</u>		<input checked="" type="checkbox"/> 085 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>&lt;.02</u>
<input checked="" type="checkbox"/> 076 Magnesium	<u>12</u>		<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>130</u>
<input checked="" type="checkbox"/> 101 Potassium	<u>.67</u>		<input checked="" type="checkbox"/> 035 Chlorides	<u>2</u>
<input checked="" type="checkbox"/> 113 Sodium	<u>2</u>		<input type="checkbox"/> 043 Color (su)	_____
<input checked="" type="checkbox"/> 116 Sulfates	<u>5</u>		<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>218</u>
<input type="checkbox"/>	_____		<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	<u>131</u>
			<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>1.0</u>
			<input type="checkbox"/>	_____
			<input type="checkbox"/>	_____

All analyses reported in mg/l unless otherwise specified.  
\*Samples for both water chemistry and water bacteriology should be submitted in separate bottles.

S. L. Inhorn, M.D., Director  
Wisconsin State Laboratory of Hygiene  
Madison, Wisconsin 53706

Date Received Nov 17 76 036287

Lab. No. \_\_\_\_\_

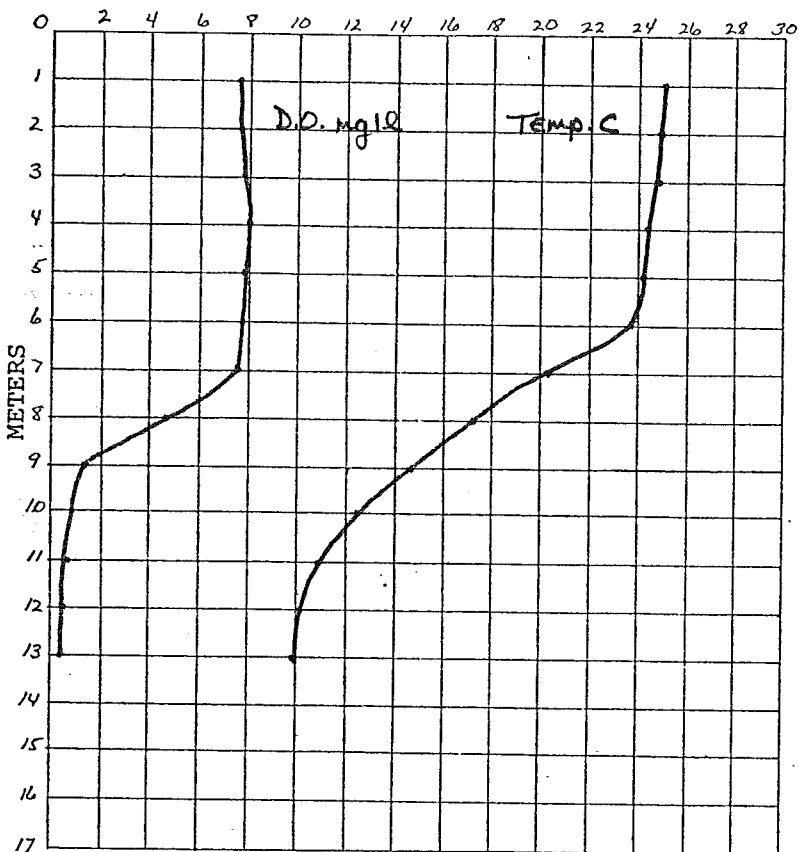
Date Reported DEC 3 1976 - 3



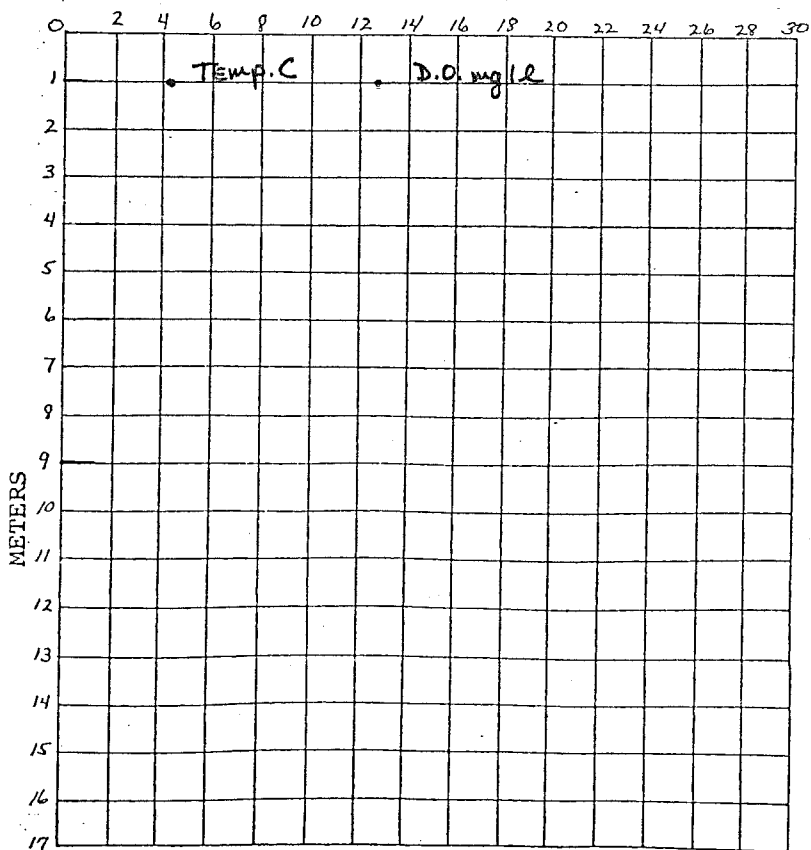


Lake Name: PEARL LAKE - WAUSHARA CO.

Conducted By Lake Michigan District Staff



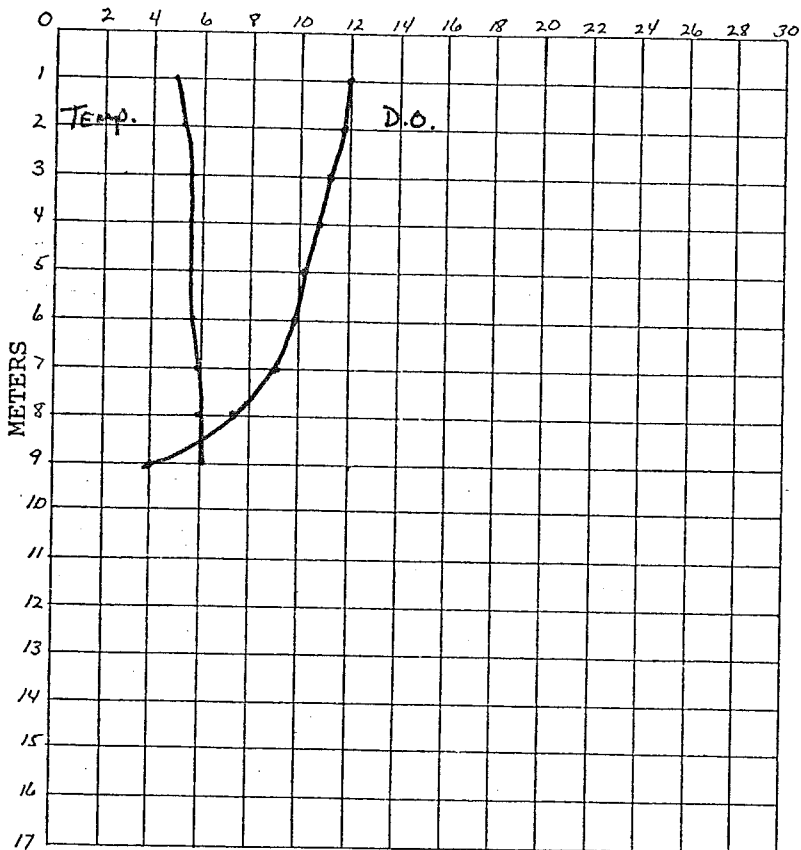
Date:	<u>8-12-76</u>
Sample Depth	<u>6 meters</u>
pH	<u>8.3 su</u>
Calcium	<u>22 mg/l</u>
Magnesium	<u>16 mg/l</u>
Potassium	<u>.52 mg/l</u>
Sodium	<u>1 mg/l</u>
Chloride	<u>&lt;1 mg/l</u>
Sulfate	<u>5 mg/l</u>
Phosphorus-total	<u>.02 mg/l</u>
Phosphorus-ortho	<u>&lt;.003 mg/l</u>
Nitrogen-organic	<u>.30 mg/l</u>
NH <sub>3</sub> -N	<u>.07 mg/l</u>
NO <sub>2</sub> +NO <sub>3</sub> -N	<u>&lt;.02 mg/l</u>
Alkalinity (as CaCO <sub>3</sub> )	<u>112 mg/l</u>
Conductivity	<u>208 uhmos</u>
Hardness (as CaCO <sub>3</sub> )	<u>120 mg/l</u>
Turbidity	<u>1.0 JTV</u>
Secchi	<u>4.5 M</u>



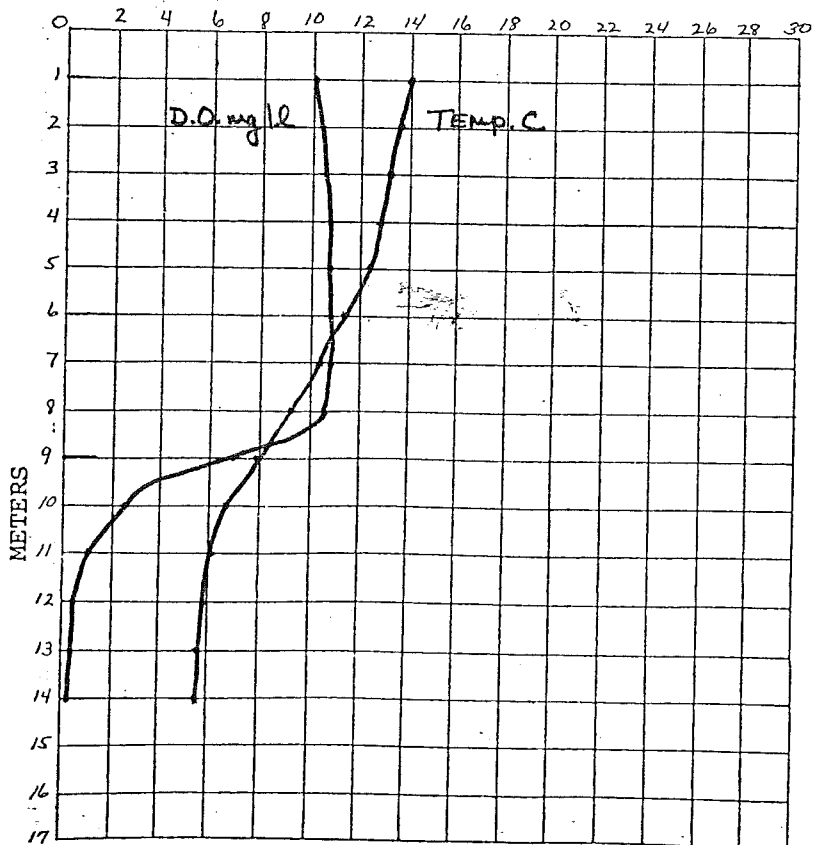
Date:	<u>11-16-76</u>
Sample Depth	<u>1 meters</u>
pH	<u>7.6 su</u>
Calcium	<u>24 mg/l</u>
Magnesium	<u>17 mg/l</u>
Potassium	<u>.67 mg/l</u>
Sodium	<u>2 mg/l</u>
Chloride	<u>2 mg/l</u>
Sulfate	<u>5 mg/l</u>
Phosphorus-total	<u>.06 mg/l</u>
Phosphorus-ortho	<u>.033 mg/l</u>
Nitrogen-organic	<u>.37 mg/l</u>
NH <sub>3</sub> -N	<u>.04 mg/l</u>
NO <sub>2</sub> +NO <sub>3</sub> -N	<u>&lt;.02 mg/l</u>
Alkalinity (as CaCO <sub>3</sub> )	<u>130 mg/l</u>
Conductivity	<u>218 uhmos</u>
Hardness (as CaCO <sub>3</sub> )	<u>131 mg/l</u>
Turbidity	<u>1.0 JTV</u>

Lake Name: PEARL LAKE - WAUSHARA CO.

Conducted By Lake Michigan District Staff



Date:	<u>3-2-76</u>
Sample Depth	<u>1 meters</u>
pH	<u>8.3 su</u>
Calcium	<u>24 mg/l</u>
Magnesium	<u>16 mg/l</u>
Potassium	<u>.7 mg/l</u>
Sodium	<u>2 mg/l</u>
Chloride	<u>&lt;1 mg/l</u>
Sulfate	<u>6 mg/l</u>
Phosphorus-total	<u>.019 mg/l</u>
Phosphorus-ortho	<u>.003 mg/l</u>
Nitrogen-organic	<u>.49 mg/l</u>
NH <sub>3</sub> -N	<u>.08 mg/l</u>
NO <sub>2</sub> +NO <sub>3</sub> -N	<u>.09 mg/l</u>
Alkalinity (as CaCO <sub>3</sub> )	<u>116 mg/l</u>
Conductivity	<u>215 uhmos</u>
Hardness (as CaCO <sub>3</sub> )	<u>121 mg/l</u>
Turbidity	<u>.7 JTV</u>



Date:	<u>5-13-76</u>
Sample Depth	<u>7 meters</u>
pH	<u>8.2 su</u>
Calcium	<u>25 mg/l</u>
Magnesium	<u>15 mg/l</u>
Potassium	<u>.6 mg/l</u>
Sodium	<u>1 mg/l</u>
Chloride	<u>&lt;1 mg/l</u>
Sulfate	<u>5 mg/l</u>
Phosphorus-total	<u>.013 mg/l</u>
Phosphorus-ortho	<u>.005 mg/l</u>
Nitrogen-organic	<u>.33 mg/l</u>
NH <sub>3</sub> -N	<u>.11 mg/l</u>
NO <sub>2</sub> +NO <sub>3</sub> -N	<u>&lt;0.02 mg/l</u>
Alkalinity (as CaCO <sub>3</sub> )	<u>122 mg/l</u>
Conductivity	<u>228 uhmos</u>
Hardness (as CaCO <sub>3</sub> )	<u>124 mg/l</u>
Turbidity	<u>4.6 JTV</u>