

DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # 600

DATE 3-1-76

TIME 13:35

LAKE GOODHAL (MOON) LAKE COUNTY WAUPACA TN 24 R 12 E SEC. 17

SAMPLE LOCATION DEEPEST AREA

WIND DIR. & INTEN. WNE 20-30

SAMPLE TYPE \_\_\_\_\_

CLOUD COVER HEAVY

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

WATER SURF. COND. ICE

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

TURBIDITY 1.0 JTU

BIOMASS \_\_\_\_\_

SAMPLE DEPTH 1 METER

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

FIELD REMARKS:

PRIMARY STATION # 693024

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) 212

TOT. - P \_\_\_\_\_ . 009

HARDNESS (AS Ca CO<sub>3</sub>) 220

SOL. - P \_\_\_\_\_ . 005

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

TOT. ORG. - N \_\_\_\_\_ . 35

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

AMMONIA - N \_\_\_\_\_ . 34

Ca 48 . \_\_\_\_\_

NO<sub>2</sub>-N+NO<sub>3</sub>-N \_\_\_\_\_ . 33

Mg 24 . \_\_\_\_\_

K \_\_\_\_\_ . 14

Na 2 . \_\_\_\_\_

SO<sub>4</sub> \_\_\_\_\_ . 7

Cl<sup>-</sup> <1

COLLECTED BY DRH, KFH



LOCATION 693024 DATE 760301 TIME 1335 DEPTH M001 LAB-SLIP-# 057316 END-DATE END-TIME  
 GOODHAL (MOON) LAKE

TEST-# STORET-# TEST--NAME--AND--UNITS TEST-VALUE

EXTRA INFORMATION ABOUT SAMPLE: HELF  
 EXTRA INFORMATION ABOUT SAMPLE: GOO

131	00010	WATER TEMP	CENT	3.5
091	00300	DO	MG/L	3.3
096	00400	PH	SU	7.2
032	00916	CALCIUM CA-TOT	MG/L	48
076	00927	MGNSIUM MG,TOT	MG/L	24
101	00937	PTISSIUM K,TOT	MG/L	1.4
113	00929	SODIUM NA,TOT	MG/L	2
116	00945	SULFATE SO4-TOT	MG/L	7
097	00403	LAB PH	SU	8.1
100	00665	PHOS-TOT	MG/L P	.009
136	00671	PHOS-DIS ORTHO	MG/L P	.005
088	00605	ORG N	MG/L	.35
086	00610	NH3-N TOTAL	MG/L	.34
085	00630	NO2&NO3 N-TOTAL	MG/L	.33
002	00410	T ALK CAC03	MG/L	212
035	00940	CHLORIDE CL	MG/L	<1
114	00095	CNDUCTVY AT 25C	MICROMHO	361
068	00900	TOT HARD CAC03	MG/L	220
119	00076	TURB TRBIDMTR	HACH FTU	1.0

Collected By HELF Field No. 500 Basin No. 112 Sta. Est. Form Required Yes  No   
 Misc. Sample Only  
 Sample Description Goodhal (Moon) Lake - Deepest Area  
(Lake Survey)

BOD Estimate \_\_\_\_\_ MFCC 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>
Primary St. No.	<u>693024</u>	
Collection Date	<u>760301</u>	
Time (24 Hr. Clock)	<u>13:35</u>	
Depth of Sample O-Surface	<u>M</u>	
131 Temp (°C) Field	<u>3.5</u>	
091 DO Field	<u>3.3</u>	
086 pH (su) Field	<u>7.2</u>	
128 Flow cfs		
132 Secchi Depth (Meters)		
133 Cloud Cover		
<input checked="" type="checkbox"/> 032 Calcium	<u>48</u>	
<input checked="" type="checkbox"/> 076 Magnesium	<u>24</u>	
<input checked="" type="checkbox"/> 101 Potassium	<u>1.4</u>	
<input checked="" type="checkbox"/> 113 Sodium	<u>2</u>	
<input checked="" type="checkbox"/> 116 Sulfates	<u>7</u>	
<input type="checkbox"/> 025 BOD-5 Tot.		
<input type="checkbox"/> 134 MFCC*		
<input type="checkbox"/> 097 pH (su) Lab.		
<input type="checkbox"/> 138 Tot. Solids		
<input type="checkbox"/> 107 Vol. Tot. Solids		
<input type="checkbox"/> 166 Susp. Solids		
<input type="checkbox"/> 109 Vol. Susp. Solids		
<input checked="" type="checkbox"/> 100 Tot.-P	<u>0</u>	
<input checked="" type="checkbox"/> 136 Sol.-P	<u>0.0</u>	
<input checked="" type="checkbox"/> 088 Tot. Org-N	<u>0.3</u>	
<input checked="" type="checkbox"/> 036 Ammonia-N	<u>0.3</u>	
<input checked="" type="checkbox"/> 055 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>0.3</u>	
<input checked="" type="checkbox"/> 032 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>212</u>	
<input checked="" type="checkbox"/> 035 Chlorides	<u>1</u>	
<input type="checkbox"/> 043 Color (su)		
<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>361</u>	
<input checked="" type="checkbox"/> 058 Hardness (as CaCO <sub>3</sub> )	<u>220</u>	
<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>1.0</u>	

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. Imhorn, M.D., Director  
 Wisconsin State Laboratory of Hygiene  
 Madison, Wisconsin 53706  
 Date Reported MAR 27 1976 Lab. No. 57316  
 Date Reported MAR 17 1976 Lab. No. 3



DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # 600

DATE 5-11-76

TIME 12:00

LAKE GOODHAL (MOON) LAKE COUNTY WAUPACA TN 24N R 12E SEC. 17

SAMPLE LOCATION DEEPEST AREA

WIND DIR. & INTEN. WNW LIGHT SAMPLE TYPE KEMMER

CLOUD COVER SUNNY SAMPLE VOLUME \_\_\_\_\_

WATER SURF. COND. 0.2" CHLORO. a \_\_\_\_\_

TURBIDITY 4.6 BIOMASS \_\_\_\_\_

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

FIELD REMARKS:

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) 154

HARDNESS (AS Ca CO<sub>3</sub>) 160

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

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

Ca 37 . \_\_\_\_\_

Mg 16 . \_\_\_\_\_

Na 2 . \_\_\_\_\_

TOT. - P \_\_\_\_\_ . 010

SOL. - P \_\_\_\_\_ . 003

TOT. ORG. - N \_\_\_\_\_ . 49

AMMONIA - N \_\_\_\_\_ . 09

NO<sub>2</sub>-N+NO<sub>3</sub>-N \_\_\_\_\_ . 4.02

K \_\_\_\_\_ . 1.0

SO<sub>4</sub> \_\_\_\_\_ . 7

Cl<sup>-</sup> \_\_\_\_\_ . 41

COLLECTED BY ORH, KEH

OXYGEN, TEMPERATURE

DEPTH IN M

DEPTH

TEMP.

O<sub>2</sub>

1	15.6	<del>80.7</del>
2	14.6	9.0

FIELD DATA

CONDUCTIVITY 288

DEPTH 1 METER

pH 8.2

DEPTH 1 "

SECCHI DISK

2 METERS<sup>T</sup> BOTTOM

MAXIMUM DEPTH

9 FEET

COLLECTION DATE

5-11-76

Department of Natural Resources

SURFACE WATER CHEMISTRY & BACTERIOLOGY  
FORM 3200-35

Collected By 999 HELF Misc. Sample Only  
Field No. 600  
Basin No. 112  
Sta. Est. Form Required Yes  No

Sample Description GOODIAL (MOON) LAKE - DEEPEST AREA (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 (or Lab Use Only) 08144D  
Primary Sta. No. 693024  
Collection Date 760511  
Y Y M M D D  
Time (24 Hr. Clock) 12:00  
Depth of Sample O-Surface M 1  
F or M

026 BOD-5 Tot. \_\_\_\_\_  
 134 MFFCC\* \_\_\_\_\_  
 097 pH (su) Lab. 8.3  
 138 Tot. Solids \_\_\_\_\_  
 107 Vol. Tot. Solids \_\_\_\_\_  
 106 Susp. Solids \_\_\_\_\_  
 109 Vol. Susp. Solids \_\_\_\_\_  
 100 Tot.-P .010  
 136 Sol.-P .003  
 088 Tot. Org-N .49  
 086 Ammonia-N .09  
 085 NO<sub>2</sub> - N + NO<sub>3</sub> - N <.02  
 002 Tot. Alkalinity (as CaCO<sub>3</sub>) 154  
 035 Chlorides <1  
 013 Color (su) \_\_\_\_\_  
 114 Conductivity (µmhos) 288  
 068 Hardness (as CaCO<sub>3</sub>) 160  
 119 Turbidity (JTU) <.6  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

131 Temp (°C) Field 15.6  
 091 DO Field 8.7  
 096 pH (su) Field 8.2  
 128 Flow cfs \_\_\_\_\_  
 132 Secchi Depth (Meters) 2.+  
 133 Cloud Cover \_\_\_\_\_  
 032 Calcium 37  
 078 Magnesium 16  
 101 Potassium 1.0  
 113 Sodium 2  
 116 Sulfates 1  
 \_\_\_\_\_

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 12 1976 71725

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 # 600

DATE 7-8-76

TIME 12:15

LAKE GOODHAL (MOON) LAKE COUNTY WAUPACA TN 24 R 12E SEC. 17

SAMPLE LOCATION DEEPEST AREA

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

SAMPLE TYPE KEMMER

CLOUD COVER scattered to clear

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

WATER SURF. COND. 0-2"

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

TURBIDITY 1.9 JTU

BIOMASS \_\_\_\_\_

SAMPLE DEPTH Surface

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

FIELD REMARKS:

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) 150

TOT. - P \_\_\_\_\_ . 02

HARDNESS (AS Ca CO<sub>3</sub>) 156

SOL. - P \_\_\_\_\_ . 008

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

TOT. ORG. - N \_\_\_\_\_ . 73

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

AMMONIA - N \_\_\_\_\_ . 11

Ca 25 . \_\_\_\_\_

NO<sub>2</sub>-N+NO<sub>3</sub>-N \_\_\_\_\_ . 02

Mg 23 . \_\_\_\_\_

K \_\_\_\_\_ . 1

Na 2 . \_\_\_\_\_

SO<sub>4</sub> \_\_\_\_\_ . 7

Cl<sup>-</sup> \_\_\_\_\_ . 21

COLLECTED BY DRH, RS

OXYGEN, TEMPERATURE

DEPTH IN METERS

DEPTH	TEMP.	O <sub>2</sub>
1	26	8.1
2	25	8.8


FIELD DATA

CONDUCTIVITY 285

pH 8.5

SECCHI DISK 2

MAXIMUM DEPTH on bottom

COLLECTION DATE

DEPTH \_\_\_\_\_

DEPTH \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Collected By 999 <u>HELF</u> Misc. Sample Only	Field No. <u>600</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 GOODHAL (MOON) LAKE - DEEPEST AREA  
(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"/> 028 BOD-5 Tot.	_____
Primary Sta. No.	<u>693024</u>	<input type="checkbox"/> 134 MFFCC*	_____
Collection Date	<u>760808</u> Y Y M M D D	<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>8.5</u>
Time (24 Hr. Clock)	<u>12:15</u>	<input type="checkbox"/> 138 Tot. Solids	_____
Depth of Sample O-Surface	<u>M</u> F or M	<input type="checkbox"/> 107 Vol. Tot. Solids	_____
	<u>1</u>	<input type="checkbox"/> 103 Susp. Solids	_____
		<input type="checkbox"/> 109 Vol. Susp. Solids	_____
131 Temp (°C) Field	<u>26.0</u>	<input checked="" type="checkbox"/> 100 Tot.-P	<u>.00</u>
091 DO Field	<u>8.1</u>	<input checked="" type="checkbox"/> 136 Sol.-P	<u>.008</u>
096 pH (su) Field	<u>8.5</u>	<input checked="" type="checkbox"/> 088 Tot. Org-N	<u>.73</u>
128 Flow cfs	_____	<input checked="" type="checkbox"/> 086 Ammonia-N	<u>.11</u>
132 Secchl Depth (Meters)	<u>2.</u>	<input checked="" type="checkbox"/> 085 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>4.0</u>
133 Cloud Cover	_____	<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>150</u>
		<input checked="" type="checkbox"/> 035 Chlorides	<u>2</u>
		<input type="checkbox"/> 043 Color (su)	_____
<input checked="" type="checkbox"/> 032 Calcium	<u>25</u>	<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>281</u>
<input checked="" type="checkbox"/> 076 Magnesium	<u>23</u>	<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	<u>156</u>
<input checked="" type="checkbox"/> 101 Potassium	<u>1</u>	<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>1.5</u>
<input checked="" type="checkbox"/> 113 Sodium	<u>2</u>	<input type="checkbox"/> _____	_____
<input checked="" type="checkbox"/> 116 Sulfates	<u>7</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 Jul 976 01859

Lab. No. 11.22.76-0

Date Reported \_\_\_\_\_

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



DEPARTMENT OF NATURAL RESOURCES  
LAKE SURVEY

FIELD # 600

DATE 11-1-76

TIME 12:30

LAKE GOOHAL (MOON) LAKE COUNTY WAUPACA TN 24N R 12E SEC. 17

SAMPLE LOCATION DEEPEST AREA

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

SAMPLE TYPE KEMMER

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

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

WATER SURF. COND. \_\_\_\_\_

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

TURBIDITY 2.7 JTU

BIOMASS \_\_\_\_\_

SAMPLE DEPTH 1 METERS

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

FIELD REMARKS:

Very shallow - bell-shaped outlines  
flora - mainly Ruppia

LAB DATA

TOT. ALKALINITY (Ca CO<sub>3</sub>) 216

TOT. - P \_\_\_\_\_ . 30

HARDNESS (AS Ca CO<sub>3</sub>) 230

SOL. - P \_\_\_\_\_ . 26

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

TOT. ORG. - N \_\_\_\_\_ . 93

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

AMMONIA - N \_\_\_\_\_ . 15

Ca 43

NO<sub>2</sub>-N+NO<sub>3</sub>-N \_\_\_\_\_ . 56

Mg 30

K \_\_\_\_\_ . 1.5

Na 3

SO<sub>4</sub> \_\_\_\_\_ . 11

Cl<sup>-</sup> \_\_\_\_\_ . 2

COLLECTED BY DRH RAN



Department of Natural Resources

**SURFACE WATER CHEMISTRY & BACTERIOLOGY**

FORM 3200-35

Collected By 999 <u>HELF</u> Misc. Sample Only	Field No. <u>600</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 GOOHAL (MOON) 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>693024</u>	<input type="checkbox"/> 134 MFFCC*	_____
Collection Date	<u>761101</u> Y Y M M D D	<input checked="" type="checkbox"/> 097 pH (su) Lab.	<u>7.9</u>
Time (24 Hr. Clock)	<u>12:30</u>	<input type="checkbox"/> 138 Tot. Solids	_____
Depth of Sample O-Surface	<u>M</u> Surface F or M	<input type="checkbox"/> 107 Vol. Tot. Solids	_____
131 Temp (°C) Field	<u>8.5</u>	<input type="checkbox"/> 106 Susp. Solids	_____
091 DO Field	<u>10.2</u>	<input type="checkbox"/> 109 Vol. Susp. Solids	_____
090 pH (su) Field	<u>6.7</u>	<input checked="" type="checkbox"/> 100 Tot.-P	<u>.30</u>
128 Flow cfs	_____	<input checked="" type="checkbox"/> 136 Sol.-P	<u>.26</u>
132 Secchi Depth (Meters)	<u>2.75</u>	<input checked="" type="checkbox"/> 088 Tot. Org-N	<u>.93</u>
133 Cloud Cover	_____	<input checked="" type="checkbox"/> 086 Ammonia-N	<u>.15</u>
<input checked="" type="checkbox"/> 032 Calcium	<u>43</u>	<input checked="" type="checkbox"/> 085 NO <sub>2</sub> - N + NO <sub>3</sub> - N	<u>.56</u>
<input checked="" type="checkbox"/> 076 Magnesium	<u>30</u>	<input checked="" type="checkbox"/> 002 Tot. Alkalinity (as CaCO <sub>3</sub> )	<u>216</u>
<input checked="" type="checkbox"/> 101 Potassium	<u>1.5</u>	<input checked="" type="checkbox"/> 035 Chlorides	<u>2</u>
<input checked="" type="checkbox"/> 113 Sodium	<u>3</u>	<input type="checkbox"/> 043 Color (su)	_____
<input checked="" type="checkbox"/> 116 Sulfates	<u>11</u>	<input checked="" type="checkbox"/> 114 Conductivity (µmhos)	<u>374</u>
		<input checked="" type="checkbox"/> 068 Hardness (as CaCO <sub>3</sub> )	<u>230</u>
		<input checked="" type="checkbox"/> 119 Turbidity (JTU)	<u>2.7</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.

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

Date Received Nov 27 6 32557

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

Date Reported NOV 17 1976 7

