



United States Department of the Interior

NATIONAL PARK SERVICE

Acadia National Park

P.O. Box 177

Bar Harbor, Maine 04609

207-288-3338

IN REPLY REFER TO:

August 3, 1990

N361⁷~~1~~(ACAD)

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

Mr. Robert Pearsall
Division of Environmental &
Lake Studies
Dept. of Environmental Protection
State House Station 17
Augusta, Maine 04333

Dear Mr. Pearsall:

Enclosed please find the mid-season lake monitoring data for the lakes in Acadia National Park. The only point to note is the June 14 reading for Jordan Pond; the water was so clear, we actually ran out of line before the Secchi disk went out of sight! We will continue monitoring until the end of September and send you the rest of the data then.

We hope you are having a productive summer in Augusta.

Sincerely,

Karen Anderson
Biological Technician

Enclosures (5)



United States Department of the Interior

NATIONAL PARK SERVICE

Acadia National Park

P.O. Box 177

Bar Harbor, Maine 04609

207-288-3338

IN REPLY REFER TO:

September 23, 1990

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

N3617(ACAD)

Mr. Web Pearsall
Division of Environmental &
Lake Studies
Dept. of Environmental Protection
State House Station 17
Augusta, ME 04333

Dear Web:

Enclosed please find the rest of this year's lake monitoring data for the lakes in Acadia National Park. We have monitored twice monthly for five months this year, which I believe is a "full season;" hope that helps your analysis.

I enjoyed going out with you earlier this month to do the enhanced lake sampling. Please do send us (or call us) the data from the analyses when they are done. Also, if you have one, another weight for the Secchi disk would be nice.

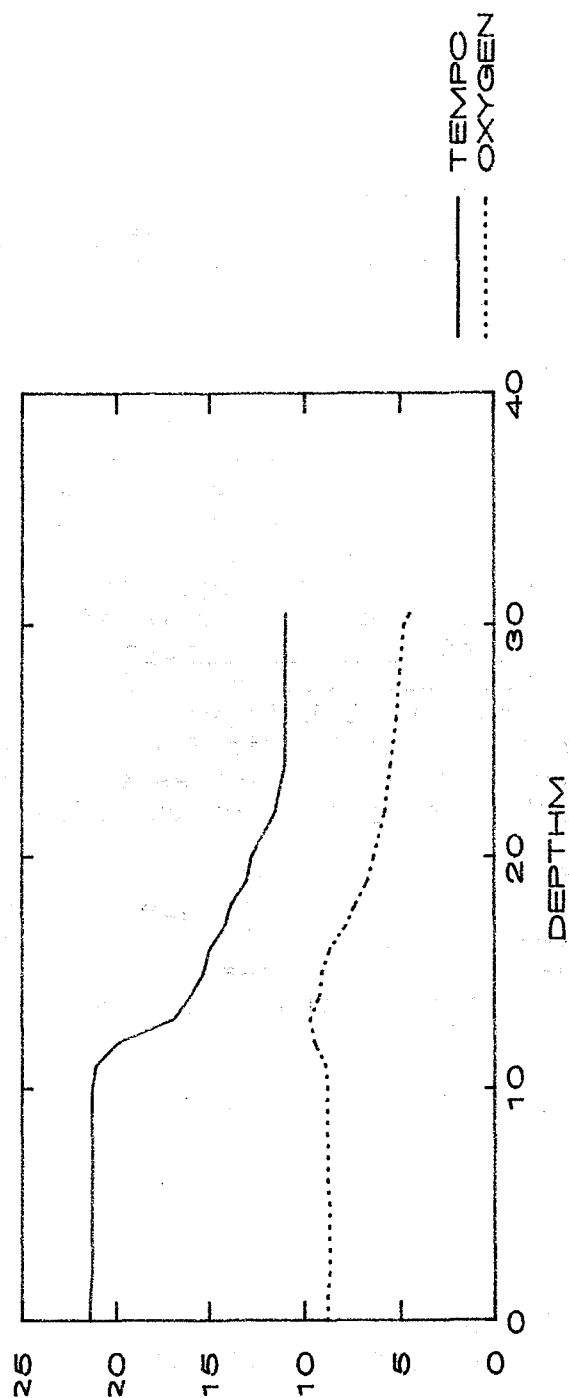
I hope you still have a program despite the budget constrictions.

Sincerely,

Karen B. Anderson
Biological Technician

enclosures (5)

Eagle Lake



WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code	
1 Spring	3 Fall
2 Summer	4 Winter

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

Eagle

TOWN

Bar Harbor

BASIN

01

COUNTY

Hancock

1 4.60.6 MIDAS	5 0.1 BASIN	7 9.0 YEAR	9 09 MONTH	11 05 DAY	75 EJ AGENCY	77 0.2 PROJECT
13 0809 TIME (MILITARY)	17 Pearson, Anderson SURVEYORS				32 21.4 WATER TEMP	35 C UNIT C = °C F = °F
36 1 Wind Velocity	38 1 Wind Direction	39 1 Check one at time of S.D. Bright (Distinct Shadows)	40 1 Cloudy Bright (No Shadow)	41 1 Heavy Overcast	42 14.1 SECCHI DISK	45 M M-Meter F-Fect
					46 1 Put B if S.D. hits Bottom	47 2 Season
						79 0.1 CARD #

☒ Check for D.O. Calibration

PROFILE DATA ONLY

Left Profile					Right Profile				
Depth	M Or F	Water Temp	C Or F	Oxygen	Depth	M Or F	Water Temp	C Or F	Oxygen
13 0	17 M	18 21.4	21 C	22 8.8	13 9	17 M	18 21.3	21 C	22 8.8
26 1	30 M	31 21.4	34 C	35 8.8	26 10	30 M	31 21.3	34 C	35 8.8
39 2	43 M	44 21.3	47 C	48 8.7	39 11	43 M	44 21.1	47 C	48 8.9
13 3	17 M	18 21.3	21 C	22 8.7	13 12	17 M	18 19.9	21 C	22 9.5
26 4	30 M	31 21.3	34 C	35 8.7	26 13	30 M	31 16.9	34 C	35 9.7
39 5	43 M	44 21.3	47 C	48 8.7	39 14	43 M	44 16.0	47 C	48 9.2
13 6	17 M	18 21.3	21 C	22 8.8	13 15	17 M	18 15.3	21 C	22 9.1
26 7	30 M	31 21.3	34 C	35 8.8	26 16	30 M	31 15.0	34 C	35 8.7
39 8	43 M	44 21.3	47 C	48 8.8	39 17	43 M	44 14.2	47 C	48 7.9

24650 29685

EFF10C

WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code	
1 Spring	3 Fall
2 Summer	4 Winter

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

EAGLE PG 2

TOWN

BASIN

ALA

COUNTY

PG

1	2	3	4	5	6	7	8	9	10	11	12
MIDAS											

1	2	3	4	5	6	7	8	9	10	11	12
BASIN											

1	2	3	4	5	6	7	8	9	10	11	12
YEAR											

1	2	3	4	5	6	7	8	9	10	11	12
MONTH											

1	2	3	4	5	6	7	8	9	10	11	12
DAY											

1	2	3	4	5	6	7	8	9	10	11	12
AGENCY											

1	2	3	4	5	6	7	8	9	10	11	12
PROJECT											

1	2	3	4	5	6	7	8	9	10	11	12
TIME (MILITARY)											

1	2	3	4	5	6	7	8	9	10	11	12
SURVEYORS											

1	2	3	4	5	6	7	8	9	10	11	12
WATER TEMP											

1	2	3	4	5	6	7	8	9	10	11	12
UNIT C = °C F = °F											

1	2	3	4	5	6	7	8	9	10	11	12
Wind Velocity											

1	2	3	4	5	6	7	8	9	10	11	12
Wind Direction											

1	2	3	4	5	6	7	8	9	10	11	12
Check one at time of S.D.											

1	2	3	4	5	6	7	8	9	10	11	12
Bright (Distinct Shadows)											

1	2	3	4	5	6	7	8	9	10	11	12
Cloudy Bright (No Shadow)											

1	2	3	4	5	6	7	8	9	10	11	12
Heavy Overcast											

1	2	3	4	5	6	7	8	9	10	11	12
SECCHI DISK											

1	2	3	4	5	6	7	8	9	10	11	12
F-Feet											

1	2	3	4	5	6	7	8	9	10	11	12
M-Meter											

1	2	3	4	5	6	7	8	9	10	11	12
Put B if S.D. hits Bottom											

1	2	3	4	5	6	7	8	9	10	11	12
Season											

1	2	3	4	5	6	7	8	9	10	11	12
CARD #											

1	2	3	4	5	6	7	8	9	10	11	12
0.1											

1	2	3	4	5	6	7	8	9	10	11	12
0.2											

1	2	3	4	5	6	7	8	9	10	11	12
0.3											

1	2	3	4	5	6	7	8	9	10	11	12
0.4											

1	2	3	4	5	6	7	8	9	10	11	12
0.5											

1	2	3	4	5	6	7	8	9	10	11	12
0.6											

1	2	3	4	5	6	7	8	9	10	11	12
0.7											

1	2	3	4	5	6	7	8	9	10	11	12
0.8											

1	2	3	4	5	6	7	8	9	10	11	12
0.9											

1	2	3	4	5	6	7	8	9	10	11	12
Check for D.O. Calibration											

PROFILE DATA ONLY

1	2	3	4	5	6	7	8	9	10	11	12
0.2											

Depth	M or F	Water Temp	C or F	Oxygen	Depth	M or F	Water Temp	C or F	Oxygen		
13	17	18	21	22	25	13	17	18	21	22	25
1.8.0	M	1.3.8	C	7.3							
26	30	31	34	35	38	26	30	31	34	35	38
1.9.0	M	1.3.0	C	6.7							
39	43	44	47	48	51	39	43	44	47	48	51
2.0.0	M	1.2.8	C	6.4							
13	17	18	21	22	25	13	17	18	21	22	25
2.2.0	M	1.1.5	C	5.8							
26	30	31	34	35	38	26	30	31	34	35	38
2.4.0	M	1.1.0	C	5.5							
39	43	44	47	48	51	39	43	44	47	48	51
2.6.0	M	1.1.0	C	5.2							
13	17	18	21	22	25	13	17	18	21	22	25
2.8.0	M	1.1.0	C	5.0							
26	30	31	34	35	38	26	30	31	34	35	38
3.0.0	M	1.1.0	C	4.8							
39	43	44	47	48	51	39	43	44	47	48	51
3.0.5	M	1.1.0	C	4.5							

30.8 = bottom

DEPARTMENT OF ENVIRONMENTAL PROTECTION

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Eagle Lake BASIN deep TOWN Bar Harbor

MIDAS

BASIN

SURVEYOR

4,6,0,6

0,1

A.N.D.E.R.S.O.N.

E.I.O.3,0,1

1

5

MURPHY

75

DATE

MILITARY
TIMEWATER
TEMPC
or
FWIND
VEL.DIR
CODEBRIGHT
(Shadow)CLOUDY BRIGHT
(No Shadow)

HEAVY OVERCAST

SECCHI

M
OF
FB if Disk hits
bottom

SEASON

9,0,0,5,1,5

0,9,0,0

5,1,0 F

0,7 2

X

0,9,5 m

1

7

13

32

36

39

CHECK ONE

42

47

9,0,0,5,3,1

0,8,0,0

5,4,0 F

1,1,8

X

0,9,2 m

1

9,0,0,6,1,2

0,8,0,0

5,8,0 F

0,7,1

X

1,0,0 m

1

9,0,0,6,2,8

1,1,3,0

6,8,0 F

0,7,1

X

1,1,0 m

2

9,0,0,7,1,0

0,8,5,0

7,0,0 F

0,3,6

X

1,2,5 m

2

9,0,0,7,2,6

1,4,2,0

7,4,0 F

0,6,5

X

1,2,0 m

2

WIND SPEED

Water Surface

Land Area

0-7 Smooth to sm. wavelets
 8-11 Lg. wavelets, scattered whitecaps
 12-16 Small waves, frequent whitecaps
 17-24 Mod. crested waves, many whitecaps
 25-35 Lg. waves, foam, blown spray

Leaves rustle, wind on face
 Leaves & twigs in constant motion, flag waving
 Raises dust & loose paper, sm. branches moving
 Sm. trees begin to sway
 Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

Comments:

DEPARTMENT OF ENVIRONMENTAL PROTECTION
VOLUNTEER MONITORING LAKE DATA FORM

DEP Form 142B

(Monitor at least twice monthly for 5 months)

LAKE Eagle Lake BASIN deep TOWN Bar Harbor

MIDAS 4.6.0.6 BASIN 0.1 SURVEYOR A. N. D. E. R. S. O. N.
1 5 17 M U R P H Y 75 E. I. O. 3. 0. 1

DATE			MILITARY TIME	WATER TEMP	C or F	WIND VEL.	DIR CODE	BRIGHT (Shadow)	CLOUDY BRIGHT (No Shadow)	HEAVY OVERCAST	SECCHI	M or F	B if Disk hits bottom	SEASON
YEAR	MONTH	DAY												
9	10	08	07	11020	75.0	F	103			X	1.40	m		2
9	10	08	09	11045	75.0	F	021		X		1.20	m		2
9	10	08	27	11100	77.0	F	055	X			1.40	m		2
9	10	09	05	0809	21.4	C	00-			X	1.41	m		2
9	10	09	19	0845	65.0	F	012	X			1.30	m		3

WIND SPEED Water Surface

0-7 Smooth to sm. wavelets
8-11 Lg. wavelets, scattered whitecaps
12-16 Small waves, frequent whitecaps
17-24 Mod. crested waves, many whitecaps
25-35 Lg. waves, foam, blown spray

Land Area

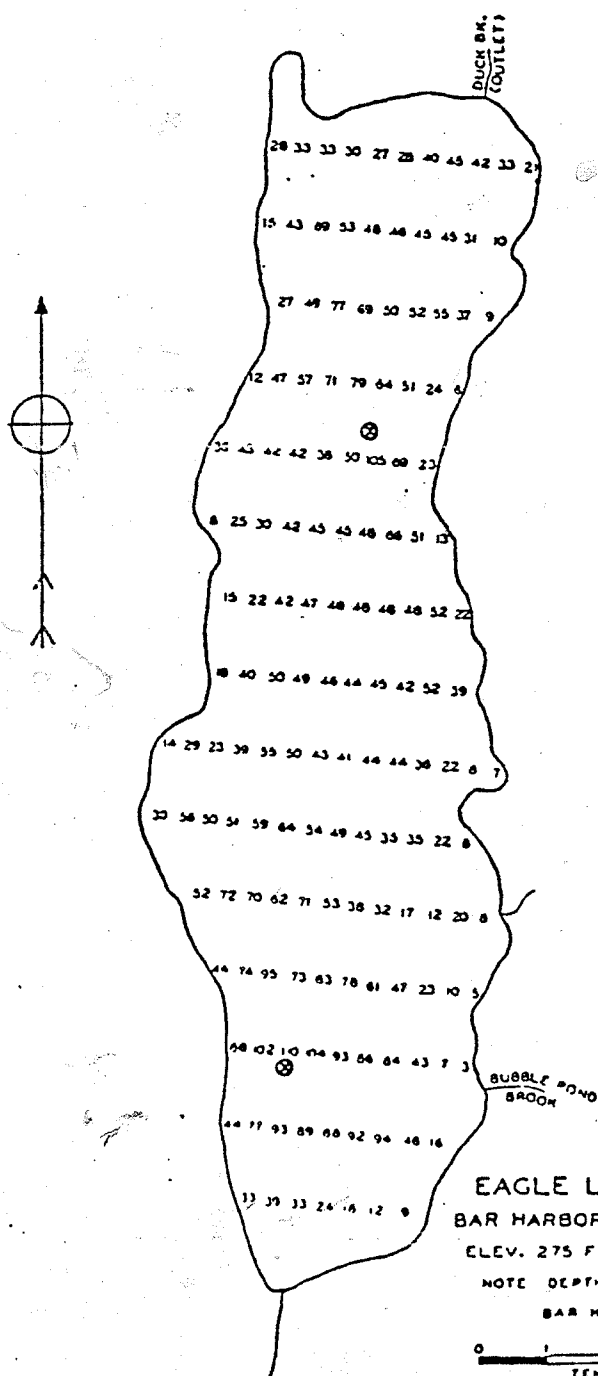
Leaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring		3 Fall	
2 Summer		4 Winter	

Comments: 8/7/90 out @ ~40° angle
9/5/90 done during enhanced lake sampling w/ web Pearsall
at southern deep hole
9/21/90 @ southern deep hole

Eagle Lake (Bar Harbor) #4606

Surface Area	177 ha (437 a)
Max. Depth	33 m (108 ft)
Mean Depth	12.7 m (42 ft)
Volume	$2.2 \times 10^7 \text{ m}^3$ (17886 acre-feet)
Drainage Area	9.84 Km^2 (3.8 mi^2)
Flushing Rate	0.3 (flushes/year)



Eagle Lake (Bar Harbor) #4606

	<u>1981</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>
Mean Secchi(m)	11.0*(4)	11.3*(3)	10.7	10.2	8.8	11.0*(2)	10.8
Min. Secchi (m)	8.8	10.5	7.5	8.0	7.5	9.0	9.3
TSI	NA	NA	15	16	22	14	19
Color(SPU)			10		6		
pH	6.5(c)		6.8(sur)		7.0(sur)		
Chla(ug/l)	1.8(1s)		1.4(1s)				
TP(ppb)	4 (1s)		4(1s)(c)		5(1s)(c)		
	7(1s)(c)		2(1s)(b)				
Alkalinity (mg/l)					4.0		

* Inadequate sampling season

(c) core, (1s) late summer (b) bottom, (sur) surface

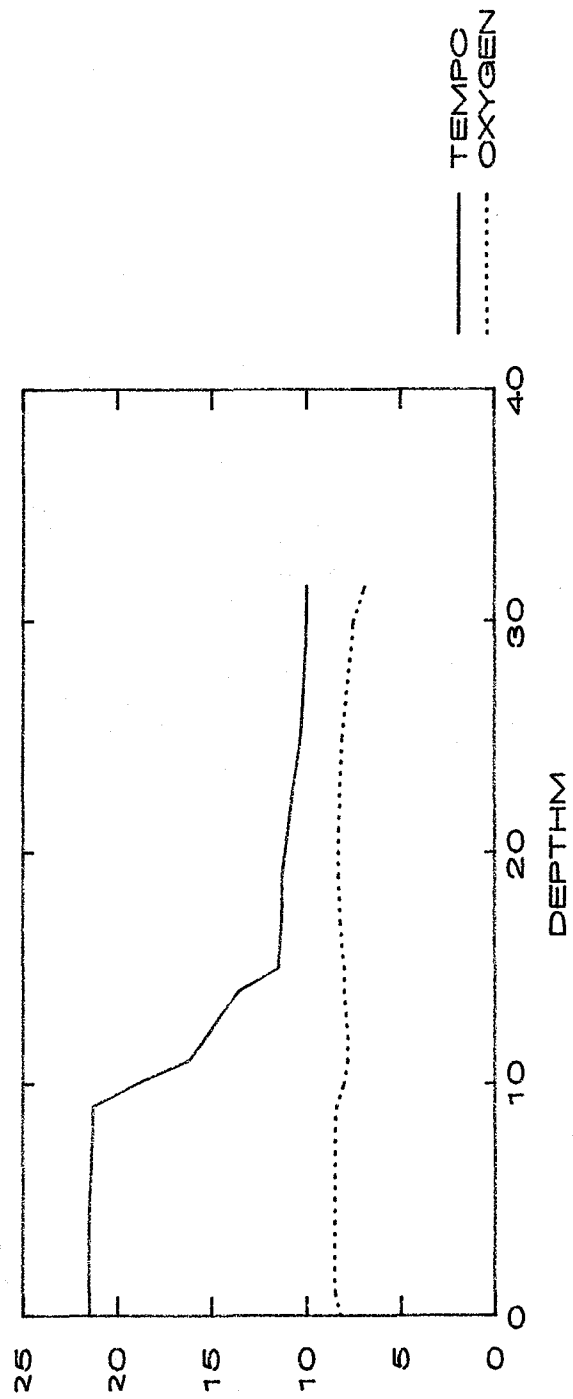
(c) Limited data gathered during cooperative project between DEP and University of Maine, Orono.

The principal fishery is salmon, brook trout and lake trout. There is a dissolved oxygen deficiency (3-4ppm) below 75 feet by late summer.

Transparencies are far above average for Maine lakes, and Chla and TP levels are low. Such high water quality is a rare natural resource which should be carefully protected and maintained. Protection may be particularly necessary for Eagle Lake because of its slow flushing rate, 0.3 flushes per year. The slow flushing rate may make it vulnerable to water quality degradation. Since the lake lies within the boundaries of the National Park System, protection should be adequate.

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

Long Pond



WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring	3 Fall		
2 Summer	4 Winter		

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

Long

TOWN

Mt. Dora

BASIN

01

COUNTY

Harrold

1 4.6.2.2
MIDAS

5 0.1
BASIN

7 90
YEAR

9 09
MONTH

11 05
DAY

75 E.I.
AGENCY

77 02
PROJECT

13 1.2.1.0
TIME
(MILITARY)

17 Pearson, L. Anderson
SURVEYORS

32 21.5
WATER
TEMP

35 C
UNIT
C = °C
F = °F

36 1.0
Wind
Velocity

38 5
Wind
Direction

39
Check one at time of S.D.
Bright
(Distinct Shadows)

40
Cloudy Bright
(No Shadow)

41
Heavy
Overcast

42 12.4
SECCHI
DISK

45 3
F-Meter
Bottom

46
Put B if
S.D. hits

47 2
Season

79 0.1

CARD #

☒ Check for D.O. Calibration

PROFILE DATA ONLY

79 0.2

Depth	M Or	Water Temp	C Or	Oxygen	Depth	M Or	Water Temp	C Or	Oxygen
13 <u>0.0</u>	17 <u>M</u>	18 <u>21.5</u>	21 <u> </u>	22 <u>8.2</u>	13 <u>9.0</u>	17 <u>M</u>	18 <u>21.3</u>	21 <u> </u>	22 <u>8.4</u>
26 <u>1.0</u>	30 <u> </u>	31 <u>21.5</u>	34 <u> </u>	35 <u>8.5</u>	26 <u>1.0.0</u>	30 <u> </u>	31 <u>19.0</u>	34 <u> </u>	35 <u>8.0</u>
39 <u>2.0</u>	43 <u> </u>	44 <u>21.5</u>	47 <u> </u>	48 <u>8.5</u>	39 <u>1.1.0</u>	43 <u> </u>	44 <u>16.2</u>	47 <u> </u>	48 <u>7.8</u>
13 <u>3.0</u>	17 <u> </u>	18 <u>21.5</u>	21 <u> </u>	22 <u>8.5</u>	13 <u>1.2.0</u>	17 <u> </u>	18 <u>15.3</u>	21 <u> </u>	22 <u>7.8</u>
26 <u>4.0</u>	30 <u> </u>	31 <u>21.5</u>	34 <u> </u>	35 <u>8.5</u>	26 <u>1.3.0</u>	30 <u> </u>	31 <u>14.5</u>	34 <u> </u>	35 <u>7.9</u>
39 <u>5.0</u>	43 <u> </u>	44 <u>21.5</u>	47 <u> </u>	48 <u>8.5</u>	39 <u>1.4.0</u>	43 <u> </u>	44 <u>13.6</u>	47 <u> </u>	48 <u>8.0</u>
3 <u>6.0</u>	17 <u> </u>	18 <u>21.4</u>	21 <u> </u>	22 <u>8.5</u>	13 <u>1.5.0</u>	17 <u> </u>	18 <u>11.5</u>	21 <u> </u>	22 <u>8.0</u>
6 <u>7.0</u>	30 <u> </u>	31 <u>21.4</u>	34 <u> </u>	35 <u>8.5</u>	26 <u>1.7.0</u>	30 <u> </u>	31 <u>11.3</u>	34 <u> </u>	35 <u>8.2</u>
9 <u>8.0</u>	43 <u> </u>	44 <u>21.3</u>	47 <u> </u>	48 <u>8.5</u>	39 <u>1.9.0</u>	43 <u> </u>	44 <u>11.3</u>	47 <u> </u>	48 <u>8.3</u>

24782

34663

FIN 10C

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

Long #2

TOWN

BASIN

01

COUNTY

Season Code
 1 Spring 3 Fall
 2 Summer 4 Winter

4622
 MIDAS

5
 BASIN

7
 YEAR

9
 MONTH

11
 DAY

75
 AGENCY

77
 PROJECT

13
 TIME
 (MILITARY)

17
 SURVEYORS

32
 WATER
 TEMP

35
 UNIT
 C = °C
 F = °F

36
 Wind
 Velocity

38
 Wind
 Direction

39
 Check one at time
 of S.D.
 Bright
 (Distinct Shadows)

40
 Cloudy Bright
 (No Shadow)

41
 Heavy
 Overcast

42
 SECCHI
 DISK

45
 F=Feet
 M=Meter

46
 Bottom
 S.D. hits

47
 Season

79
 0.1

Card 02 only

CARD #

☒ Check for D.O. Calibration. PROFILE DATA ONLY

79
 0.2

Depth	M Or	Water Temp	C Or	Oxygen	Depth	M Or	Water Temp	C Or	Oxygen		
13	17	18	21	22	25	13	17	18	21	22	25
26	30	31	34	35	38	26	30	31	34	35	38
39	43	44	47	48	51	39	43	44	47	48	51
13	17	18	21	22	25	13	17	18	21	22	25
26	30	31	34	35	38	26	30	31	34	35	38
39	43	44	47	48	51	39	43	44	47	48	51
13	17	18	21	22	25	13	17	18	21	22	25
26	30	31	34	35	38	26	30	31	34	35	38
39	43	44	47	48	51	39	43	44	47	48	51
13	17	18	21	22	25	13	17	18	21	22	25
26	30	31	34	35	38	26	30	31	34	35	38
39	43	44	47	48	51	39	43	44	47	48	51

DEPARTMENT OF ENVIRONMENTAL PROTECTION

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Long Pond BASIN deep TOWN Mt. Desert / Southwest Harbor

MIDAS 4,6,2,2 BASIN 0,1 SURVEYOR A.N.D.E.R.S.O.N. E.I.O,3,0,1

1 5 17 M U R P H Y 75

DATE			MILITARY TIME	WATER TEMP	C or F	WIND VEL.	DIR CODE	IR BRIGHT (Shadow)	CLOUDY BRIGHT (No Shadow)	HEAVY OVERCAST	SECCHI	M or F	B if Disk hits bottom	SEASON
YEAR	MONTH	DAY												
9	0	0	5	1	6	0	9	1	0		5	1	0	1
9	0	0	6	0	1	1	0	4	0		5	6	0	1
9	0	0	6	1	4	1	0	0	0		6	1	0	2
9	0	0	6	2	9	1	2	2	0		6	8	0	2
9	0	0	7	1	0	1	1	1	0		7	1	0	2
9	0	0	7	2	7	1	5	4	0		7	2	0	2

WIND SPEED

Water Surface

Land Area

0-7 Smooth to sm. wavelets
 8-11 Lg. wavelets, scattered whitecaps
 12-16 Small waves, frequent whitecaps
 17-24 Mod. crested waves, many whitecaps
 25-35 Lg. waves, foam, blown spray

Leaves rustle, wind on face
 Leaves & twigs in constant motion, flag waving
 Raises dust & loose paper, sm. branches moving
 Sm. trees begin to sway
 Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

ments:

DEPARTMENT OF ENVIRONMENTAL PROTECTION
VOLUNTEER MONITORING LAKE DATA FORM

DEP Form 142B

(Monitor at least twice monthly for 5 months)

LAKE Long Pond BASIN deep TOWN Southwest Harbor/Mt. Desert

MIDAS 4.6.2.2 BASIN 0.1 SURVEYOR A. N. D. E. R. S. O. N. E. I. O. 3. 0. 1
1 5 17 M U R P H Y

DATE			MILITARY TIME	WATER TEMP	C or F	WIND VEL.	DIR CODE	BRIGHT (Shadow)	CLOUDY BRIGHT (No Shadow)	HEAVY OVERCAST	SECCHI	M or F	B if Disk hits bottom	SEASON			
YEAR	MONTH	DAY															
9	10	08	08	1.5	1.0	72.5	F	0.2	5			X	0.8	5	M		2
9	10	08	2.7	1.2	1.5	75.5	F	0.7	5	X			1.3	0	M		2
9	10	09	0.5	1.2	1.0	21.5	C	1.0	5			X	1.2	4	m		2
9	10	09	2.1	1.5	1.5	66.0	F	0.9	1	X			1.1	8	m		3

WIND SPEED Water Surface
0-7 Smooth to sm. wavelets
8-11 Lg. wavelets, scattered whitecaps
2-16 Small waves, frequent whitecaps
7-24 Mod. crested waves, many whitecaps
5-35 Lg. waves, foam, blown spray

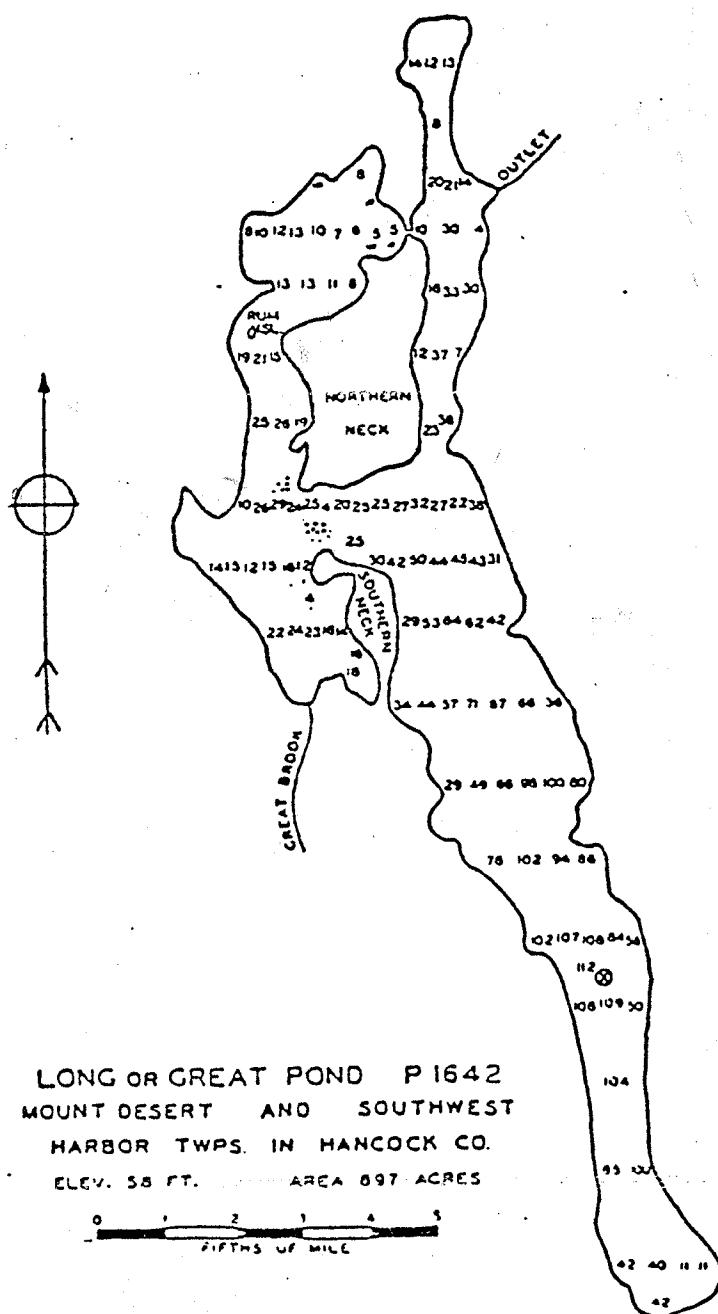
Land Area
Leaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring		3 Fall	
2 Summer		4 Winter	

Comments: 8/8/90 fog
8/27/90 trailing behind @ angle
9/5/90 done during enhanced lake sampling with Web Pearall

Long Pond (Great Pond) (Mt. Desert) #4622

Surface Area	363 ha (897 a)
Max. Depth	34.4m (113 ft)
Mean Depth	11.0m (36 ft)
Volume	$33.4 \times 10^6 \text{ m}^3$ (27154 acre-feet)
Drainage Area	17.35 km^2 (6.70mi ²)
Flushing Rate	0.3 (flushes/year)



Long Pond (Mt. Desert) # 4622

	<u>1977-80</u>	<u>1981-83</u>	<u>1984-85</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>
South Basin						
Mean Secchi (m)	7.8	7.7*(3)	8.1	7.5*(3)	9.3*(3)	10.8
Min. Secchi (m)	6.0	6.5	5.0	5.8	8.5	9.0
TSI	27	NA	25	NA	NA	14
Color(SFU)		5	12			
pH(core)		6.4	6.8			
Chla(ug/l)		3.0(1s)	2.5(1s)			
TP(ppb)		7(1s)(c)	3(1s)(c)		3(1s)(c)	
		9(1s)(b)	3(1s)(b)		3(1s)(b)	
North Basin						
Mean Secchi (m)	7.4	7.2*(4)				
Min. Secchi (m)	5.0	6.0				
TSI	29	NA				

* Inadequate sampling season
(1s) late summer, (c) core, (b) bottom

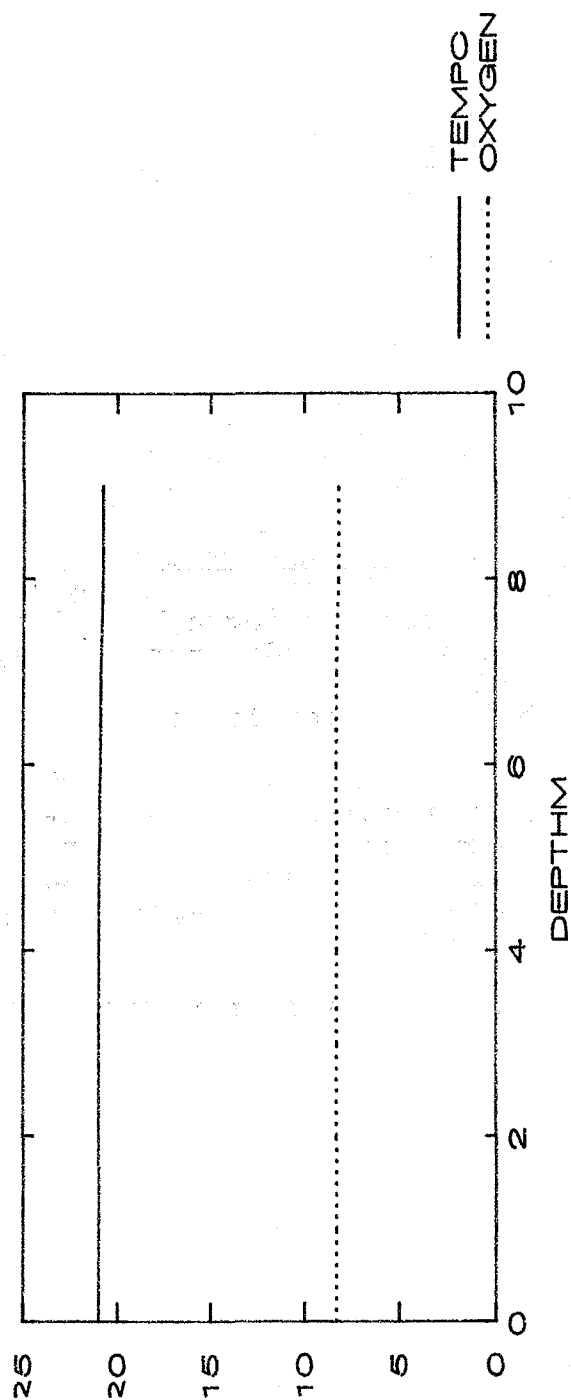
Long Pond is a deep, cold lake that supports a cold water fishery; the pond remains well oxygenated all the way to the bottom. The pond is located partially in Acadia National Park.

Transparencies are deeper than average for Maine ponds and Chla and TP values are low to moderate. Present water quality is excellent and appears to be stable. Complete sampling seasons are necessary to accurately predict water quality trends. *A complete season in 1988 showed increases in both mean and minimum transparencies.*

A slow flushing rate (0.3 flushes/year) may indicate that the pond is vulnerable to water quality degradation. Cottage owners and other residents of the watershed should exercise care not to increase the phosphorus load to the lake. (See section on lake protection in the Introduction.)

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

Bubble Pond



WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring	3 Fall		
2 Summer	4 Winter		

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

Bubble

TOWN

Bar Harbor

BASIN

01

COUNTY

Hancock

1 4.4.5.2
MIDAS

5 0.1
BASIN

7 9.0
YEAR

9 0.9
MONTH

11 0.5
DAY

75 E.I.
AGENCY

77 0.2
PROJECT

13 0.92.0
TIME
(MILITARY)

17 Pearson, Anderson
SURVEYORS

32 2.1.0
WATER
TEMP

35 C
UNIT
C = °C
F = °F

36 0.5
Wind
Velocity

38 8
Wind
Direction

39 ☐ 40 ☒ 41 ☐
Check one at time of S.D.
Bright (Distinct Shadows)
Cloudy Bright (No Shadow)
Heavy Overcast

42 10.1
SECCHI
DISK

45 3
M=Meter
F=Feet

46 ☐
Put B if
S.D. hits
Bottom

47 2
Season

79 0.1

CARD #

☒ Check for D.O. Calibration PROFILE DATA ONLY

Depth M Or Water C Or Oxygen
F Temp F

13 0. 17 ☐ 18 2.1.0 21 ☐ 22 8.3 25 ☐

26 1. 30 ☐ 31 2.1.0 34 ☐ 35 8.3 38 ☐

39 2. 43 ☐ 44 2.1.0 47 ☐ 48 8.3 51 ☐

13 3. 17 ☐ 18 2.1.0 21 ☐ 22 8.3 25 ☐

26 4. 30 ☐ 31 2.1.0 34 ☐ 35 8.3 38 ☐

39 5. 43 ☐ 44 2.1.0 47 ☐ 48 8.3 51 ☐

13 6. 17 ☐ 18 2.0.9 21 ☐ 22 8.3 25 ☐

26 7. 30 ☐ 31 2.0.9 34 ☐ 35 8.2 38 ☐

39 8. 43 ☐ 44 2.0.8 47 ☐ 48 8.2 51 ☐

Depth M Or Water C Or Oxygen
F Temp F

13 9. 17 ☐ 18 2.0.8 21 ☐ 22 8.2 25 ☐

26 9. 30 ☐ 31 2.0.8 34 ☐ 35 8.2 38 ☐

39 9. 43 ☐ 44 2.0.8 47 ☐ 48 8.2 51 ☐

13 9. 17 ☐ 18 2.0.8 21 ☐ 22 8.2 25 ☐

26 9. 30 ☐ 31 2.0.8 34 ☐ 35 8.2 38 ☐

39 9. 43 ☐ 44 2.0.8 47 ☐ 48 8.2 51 ☐

13 9. 17 ☐ 18 2.0.8 21 ☐ 22 8.2 25 ☐

26 9. 30 ☐ 31 2.0.8 34 ☐ 35 8.2 38 ☐

39 9. 43 ☐ 44 2.0.8 47 ☐ 48 8.2 51 ☐

2478

34673

EPC

DEPARTMENT OF ENVIRONMENTAL PROTECTION

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Bubble Pond BASIN deep TOWN Bant Harbor

MIDAS

BASIN

SURVEYOR

4,4,5,2

0,1

M, U, R, P, H, Y,

E, I, O, 3, O, I

1

5

ANDERSON

75

DATE

MILITARY

WATER

C

or

WIND

DIR

BRIGHT
(Shadow)CLOUDY BRIGHT
(No Shadow)

HEAVY OVERCAST

SECCHI

M

if

Disk hits
bottom

SEASON

YEAR MONTH DAY

TIME

TEMP

F

VEL.

CODE

CHECK ONE

42

47

9,0,0,5,1,5

0,9,5,0

5,1,0 F

0,9 5

X

8,0 m

1

9,0,0,5,3,1

0,9,3,0

5,4,0 F

1,0 8

X

0,9,0 m

1

9,0,0,6,1,2

0,9,2,0

5,8,0 F

0,6 1

X

1,1,0 m

1

9,0,0,6,2,8

1,3,5,0

6,8,0 F

1,0 1

X

1,1,0 m

2

9,0,0,7,1,0

0,9,3,0

7,0,0 F

0,3 2

X

0,9,5 m

2

9,0,0,7,2,6

1,4,5,0

7,3,0 F

0,7 5

X

1,1,0 m

2

WIND SPEED

Water Surface

Land Area

0-7
8-11
12-16
17-24
25-35Smooth to sm. wavelets
Lg. wavelets, scattered whitecaps
Small waves, frequent whitecaps
Mod. crested waves, many whitecaps
Lg. waves, foam, blown sprayLeaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

Comments:

DEPARTMENT OF ENVIRONMENTAL PROTECTION
VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Bubble Pond BASIN deep TOWN Berth Harbor

MIDAS

BASIN

SURVEYOR

4,4,5,2

0,1

M, U, R, P, H, Y,

E, I, 0, 3, 0, 1

1

5

17
ANDERSON

75

DATE

MILITARY

WATER

C
or
FWIND
VEL.DIR
CODEBRIGHT
(Shadow)CLOUDY BRIGHT
(No Shadow)

HEAVY OVERCAST

SECCHI

M
or
FB if Disk hits
bottom

SEASON

YEAR MONTH DAY

TIME

TEMP

36

39

42

47

9, 0, 10, 8, 10, 9

1, 0, 1, 0

7, 3, 0 F

0, 3 8

X

X

X

1, 1, 5 M

2

9, 10, 10, 8, 12, 7

1, 0, 2, 0

7, 5, 0 F

0, 1 1?

X

X

X

1, 0, 5 M

2

9, 10, 10, 9, 10, 5

0, 9, 2, 0

2, 1, 0 C

0, 5 8

X

X

X

1, 0, 1 M

2

9, 10, 10, 9, 11, 9

0, 9, 1, 5

6, 3, 0 F

0, 1 2

X

X

X

1, 2, 2 M

3

WIND SPEED

Water Surface

Land Area

0-7 Smooth to sm. wavelets
8-11 Lg. wavelets, scattered whitecaps
12-16 Small waves, frequent whitecaps
17-24 Mod. crested waves, many whitecaps
25-35 Lg. waves, foam, blown spray

Leaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1 E 3 S 5 W 7
NE 2 SE 4 SW 6 NW 8

Season Code

1 Spring 3 Fall
2 Summer 4 Winter

Comments:

9/5/90 done during enhanced lake sampling with abb Peasall



United States Department of the Interior

NATIONAL PARK SERVICE

Acadia National Park

P.O. Box 177

Bar Harbor, Maine 04609

207-288-3338

IN REPLY REFER TO:

September 10, 1990

N3615(ACAD)

Mr. Craig Hollingsworth
University of Massachusetts
Amherst, MA 01003

Dear Mr. Hollingsworth,

During 1990, you were issued a scientific collecting permit to conduct research in Acadia National Park. At Acadia, we maintain a bibliography of all work done in the Park as well as on Mount Desert Island to use as a reference of prior scientific study. It has taken an enormous effort for us to compile the information contained in the bibliography, and we would like to keep it up-to-date. To aid us in this effort, we request that you fill out the enclosed form and return it to us as soon as possible. This information will not be used by us for publication; it will only be used for our bibliography and in compiling an annual report of research done in Acadia for our Regional Office. Acadia National Park would also be interested in a copy of your final report or your published paper for our files when your study is complete.

Please be advised that in the future we will be checking to see if we have received progress reports and/or final reports from all researchers applying for collection permits at Acadia National Park. Researchers who have not submitted progress reports and/or final reports may not be issued a collection permit in 1991.

Thank you in advance for your time in filling out the enclosed form.

Sincerely,

Allan O'Connell, Chief
Resource Management Section

kba:aoc
enclosure

Bubble Pond

#4452

Surface Area

13.0 ha (32 a)

Max. Depth

11.7 m (38.4 ft)

Mean Depth

4.9 m (16.0 ft)

Volume

$6.4 \times 10^5 \text{ m}^3$ (520 acre-feet)

Drainage Area

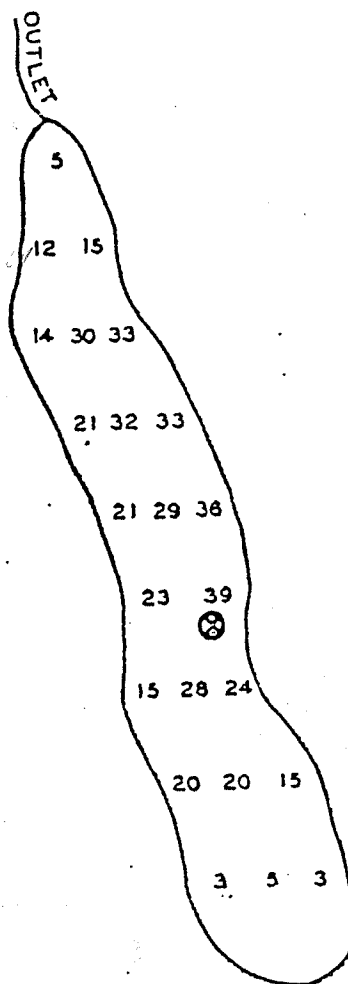
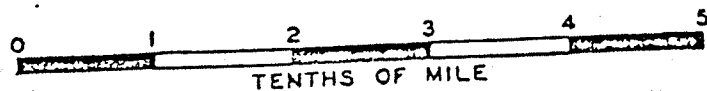
1.81 Km^2 (.7 mi^2)

Flushing Rate

1.8 (flushes/year)

BUBBLE POND
BAR HARBOR TWP.
ELEV. 325 FT.

P 1654
HANCOCK CO.



Bubble Pond

#4452

	<u>1981</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986-87</u>	<u>1987</u>	<u>1988</u>
Mean Secchi(m)	8.5*(2)	10.1*(4)	8.9	11.5*(1)	7.5*(~~8~~)	8.1*(3)	7.5-
Min. Secchi (m)	7.5	9.5	7.9	11.5	6.5	7.0	7.5-
TSI	NA	NA	21	NA	NA	NA	19
Color(SPU)	NA	5			7		
pH		7.0 (sur)			6.8(sur)		
Chla(ug/l)		1.5(1s)					
TP(ppb)		5(1s)(c)			3(1s)(c)		
Alkalinity					6.4		

* Inadequate Sampling Season

(1s) late summer, (c) core, (sur) surface

Secchi disk readings indicate excellent water quality. The average transparency reading for Maine lakes is 5.5m and Bubble far surpasses this level. Chla and TP values are low. Such water quality is a rare natural resource which should be protected. Since Bubble Pond is within the boundaries of Acadia National Park, ample protection should be insured.

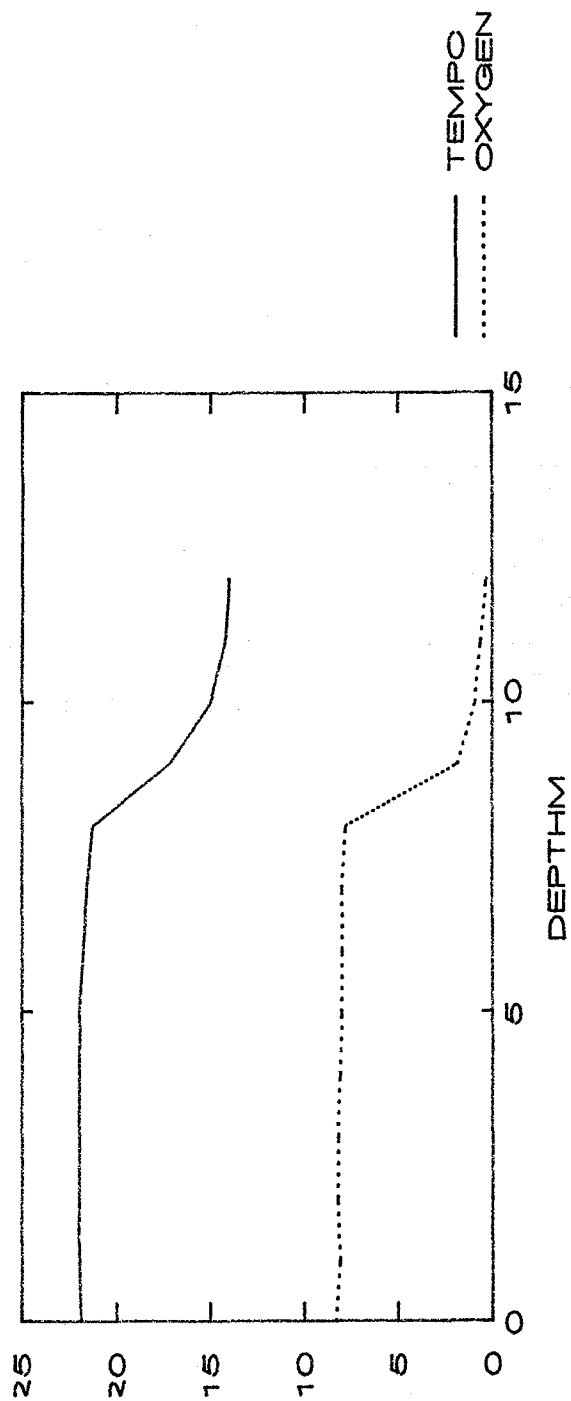
The reason for the exceptionally low Secchi disk readings for 1986 is unknown. It may be due to a change in monitors or climatic variations.

Some of the fluctuation in transparency readings between years may be due to the frequent change in monitors.

The pond is managed for brook trout.

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

Seal Cove Pond



IND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring	3 Fall		
2 Summer	4 Winter		

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE Sca1 Cove TOWN Tremont

BASIN 01 COUNTY Hancock

1 4.63.0 MIDAS	5 01 BASIN	7 90 YEAR	9 09 MONTH	11 05 DAY	75 EI AGENCY	77 0.2 PROJECT	
13 1.40.0 TIME (MILITARY)	17 PEARSON, ALLAN, ANDERSON SURVEYORS				32 21.9 WATER TEMP	35 C UNIT C = °C F = °F	
36 0.3 Wind Velocity	38 5 Wind Direction	39 ☐ Check one at time of S.D. Bright (Distinct Shadows)	40 X Cloudy Bright (No Shadow)	41 ☐ Heavy Overcast	42 8.3 SECCHI DISK	45 M F=Feet M=Meter	46 ☐ Put B if S.D. hits Bottom
47 2 Season						79 0.1 CARD #	

☒ Check for D.O. Calibration

PROFILE DATA ONLY

79
0.2

Depth	M Or F	Water Temp	C Or F	Oxygen	Depth	M Or F	Water Temp	C Or F	Oxygen
13 0.	17 M	18 21.9	21 C	22 8.3	13 9.	17 M	18 17.2	21 C	22 1.8
26 1.	30 M	31 22.0	34 C	35 8.1	26 10.	30 M	31 15.0	34 C	35 0.9
39 2.	43 M	44 22.0	47 C	48 8.2	39 11.	43 M	44 14.2	47 C	48 0.6
13 3.	17 M	18 22.0	21 C	22 8.2	13 12.	17 M	18 14.0	21 C	22 0.3
26 4.	30 M	31 22.0	34 C	35 8.1	26 13.	30 ☐	31 ☐	34 ☐	35 ☐
39 5.	43 M	44 22.0	47 C	48 8.0	39 ☐	43 ☐	44 ☐	47 ☐	48 ☐
13 6.	17 M	18 21.8	21 C	22 8.0	13 ☐	17 ☐	18 ☐	21 ☐	22 ☐
26 7.	30 M	31 21.6	34 C	35 8.0	26 ☐	30 ☐	31 ☐	34 ☐	35 ☐
39 8.	43 M	44 21.3	47 C	48 7.8	39 ☐	43 ☐	44 ☐	47 ☐	48 ☐

34773, 34778, FC 30

bottom = 12.3 m

DEPARTMENT OF ENVIRONMENTAL PROTECTION

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Seal Cove Pond BASIN deep TOWN Tremont

MIDAS

4,6,3,0

1

BASIN

0,1

5

SURVEYOR

A, N, D, E, R, S, O, N,

MURPHY

E, I, O, 3, 0, 1

75

DATE

YEAR MONTH DAY

9,0,0,5,1,6

7

MILITARY

TIME

1,0,1,0

13

WATER

TEMP

5,7,0 F

32

C

or F

WIND

VEL.

0,6,2

36

DIR

CODE

BRIGHT
(Shadow)

X

39

CLOUDY BRIGHT
(No Shadow)

CHECK

ONE

HEAVY OVERCAST

SECCHI

6,1 M

42

M

or F

B if Disk hits
bottom

SEASON

1

47

9,0,0,6,0,1

1,1,4,0

5,9, F

0,5,5

X

6,8 M

1

9,0,0,6,1,2

1,1,0,0

6,7,0 F

0,2,4

X

6,5 M

2

9,0,0,6,2,9

1,3,1,0

7,0,0 F

0,9,6

X

7,5 M

2

9,0,0,7,1,0

1,2,0,5

7,2,0 F

0,5,6

X

8,0 M

2

9,0,0,7,2,7

1,4,5,0

7,6,0 F

0,5,5

X

0,7,5 M

2

WIND SPEED

Water Surface

Land Area

0-7
8-11
12-16
17-24
25-35Smooth to sm. wavelets
Lg. wavelets, scattered whitecaps
Small waves, frequent whitecaps
Mod. crested waves, many whitecaps
Lg. waves, foam, blown sprayLeaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

Comments:

DEPARTMENT OF ENVIRONMENTAL PROTECTION
VOLUNTEER MONITORING LAKE DATA FORM

DEP Form 142B

(Monitor at least twice monthly for 5 months)

LAKE Seal Cove Pond BASIN deep TOWN Tremont

MIDAS 4.6.3.0 1	BASIN 0.1 5	SURVEYOR M. U. R. P. H. Y. ANDERSON	E. I. O. 3. 0. 1 75
-----------------------	-------------------	---	------------------------

DATE YEAR MONTH DAY			MILITARY TIME	WATER TEMP	C or F	WIND VEL.	DIR CODE	BRIGHT (Shadow)	CLOUDY BRIGHT (No Shadow)	HEAVY OVERCAST	SECCHI	M or F	B if Disk hits bottom	SEASON				
9	0	0	8	1.4	1.0	7.6	0	F	0.8	5			X	0.8	0	M		2
9	0	0	8	1.3	1.0	7.7	5	F	0.9	5	X			0.8	0	M		2
9	0	0	9	1.4	0.0	21.9	0	C	0.3	5		X		0.8	3	M		2
9	0	0	9	1.6	0.0	6.4	0	E	0.5	1		X		0.8	0	M		3

WIND SPEED Water Surface

0-7 Smooth to sm. wavelets
8-11 Lg. wavelets, scattered whitecaps
2-16 Small waves, frequent whitecaps
7-24 Mod. crested waves, many whitecaps
5-35 Lg. waves, foam, blown spray

Land Area

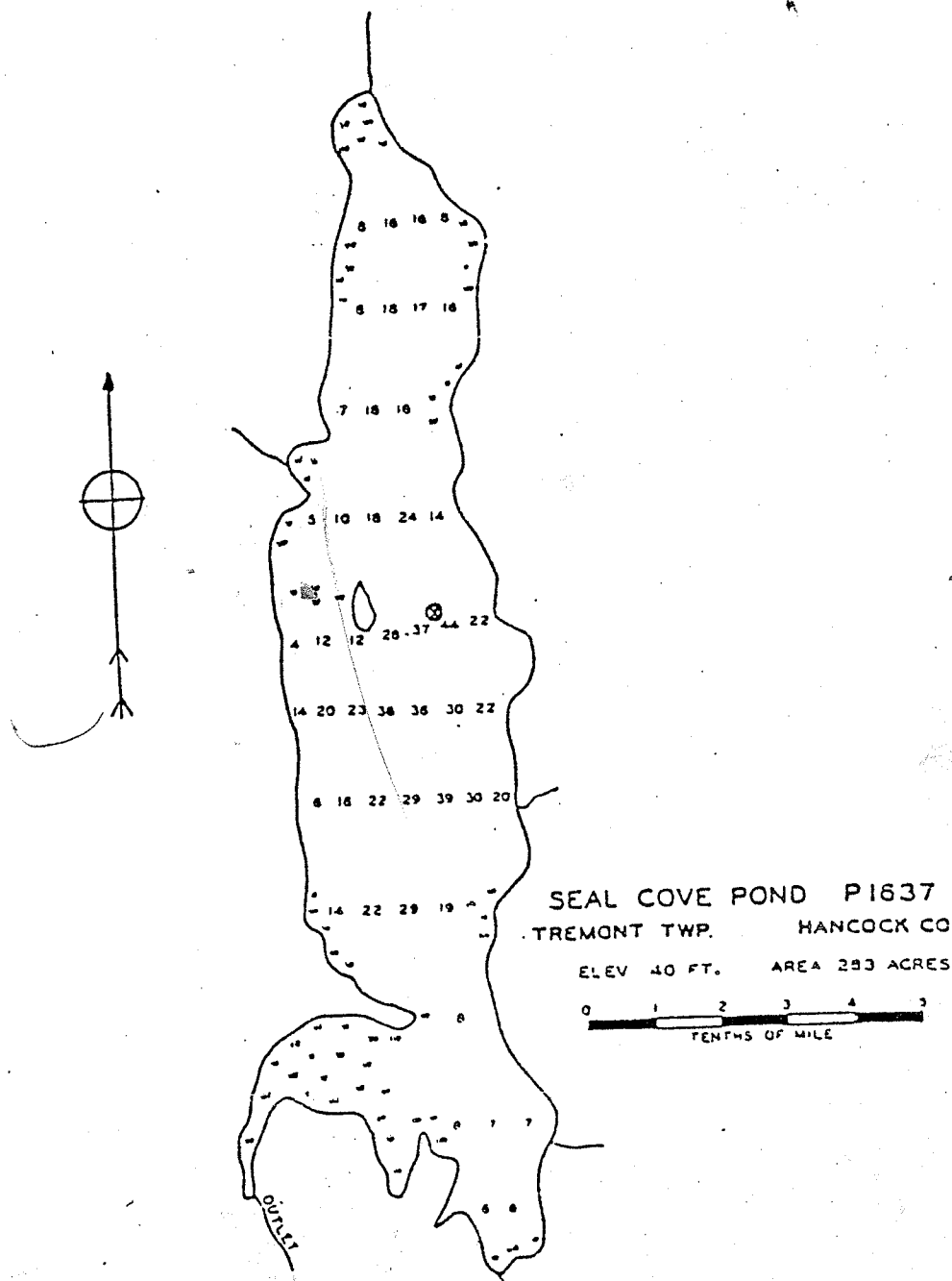
Leaves rustle, wind on face
Leaves & twigs in constant motion, flag waving
Raises dust & loose paper, sm. branches moving
Sm. trees begin to sway
Whole trees in motion, why are you out here

WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring		3 Fall	
2 Summer		4 Winter	

Comments: 8/8/90 ~40° angle on line
8/27/90 dragging way behind on an angle
9/5/90 done during enhanced lake sampling with Web Pearcell

Seal Cove Pond #4630

Surface Area	96 ha (237 a)
Max. Depth	13.2 m (43.3 ft)
Mean Depth	4.1 m (13.4 ft)
Volume	$3.9 \times 10^6 \text{ m}^3$ (3171 acre-feet)
Drainage Area	11.65 km^2 (4.5 mi^2)
Flushing Rate	1.9 (flushes/year)



Seal Cove Pond #4630

	<u>1981-83</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>
Mean Secchi(m)	5.9	7.1	6.2	6.0*(3)	7.3*(3)	8.0
Min. Secchi(m)	5.0	5.8	5.5	5.5	5.5	6.7
TSI	NA	31	37	NA	NA	26
Color(SPU)	10		10			
pH(core)	6.0		6.8(sur)			
Chla(ug/l)	2.3(1s)					
TP(ppb)	7(c)(1s)		4(1s)(c)			
	10(b)(1s)					
Alkalinity(mg/l)	5		2.7			

* inadequate sampling

(1s) late summer, (c) core, (b) bottom, (sur) surface

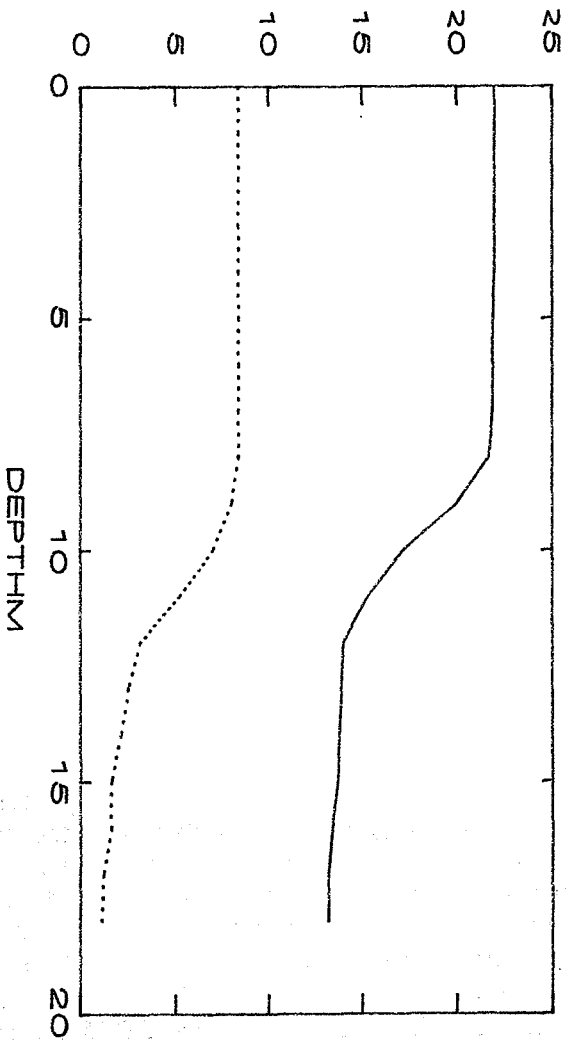
Seal Cove Pond is suitable for both warm and cold water fish. It is presently being managed for hatchery brown trout. An oxygen depletion exists (less than 2 ppm) in the lower hypolimnion.

Transparencies are above average for Maine lakes in 1984 ^{and 1988} and 1985 the only years with a complete season. Chla levels are low and TP values are moderate to low. Present water quality is good but complete sampling seasons are necessary to accurately predict water quality trends.

The alkalinity values for this lake are low. Lakes with alkalinities of less than 5 mg/l are considered vulnerable to acid rain. Although the pH is currently in the ideal range for aquatic life, pH could drop rapidly if the buffering capacity of the pond is used up.

ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

WOLF LAKE



— TEMPO
..... OXYGEN

WIND DIRECTION CODE			
N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8
Season Code			
1 Spring	3 Fall		
2 Summer	4 Winter		

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

LAKE

Echo

TOWN

Mt. Desert

BASIN

01

COUNTY

Hancock

46.2.4
MIDAS

0.1
BASIN

90
YEAR

09
MONTH

05
DAY

ED
AGENCY

02
PROJECT

15.10
TIME
(MILITARY)

Pearson, Anderson
SURVEYORS

22.0
WATER
TEMP

C
UNIT
C = C
F = F

0.1
Wind
Velocity

5
Wind
Direction

Check one at time of S.D.
Bright (Distinct Shadows)
Cloudy Bright (No Shadow)
Heavy Overcast

10.5
SECCHI
DISK

M
F-Meter
Bottom

Put B if
S.D. hits

2
Season

0.1
CARD #

☒ Check for D.O. Calibration

PROFILE DATA ONLY

0.2
CARD #

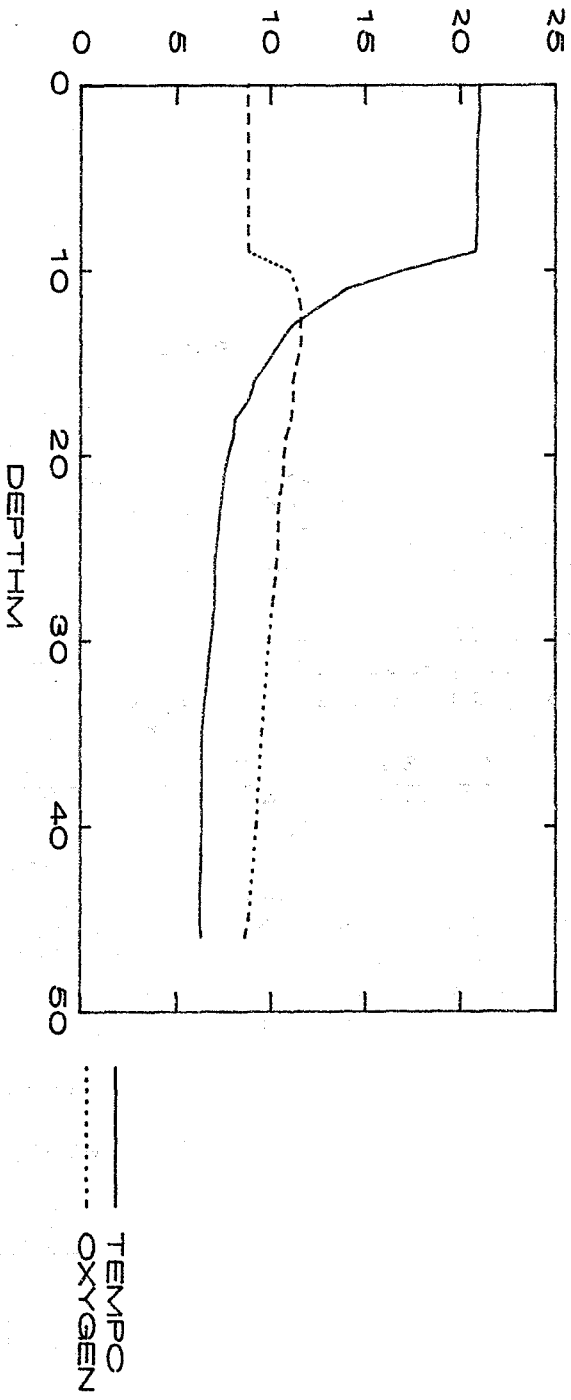
Depth	M Or F	Water Temp	C Or F	Oxygen	Depth	M Or F	Water Temp	C Or F	Oxygen		
13	0.0	M	22.0	C	8.4	13	0.0	M	20.0	C	8.0
26	1.0		22.0		8.4	26	1.0		17.2		7.0
39	2.0		22.0		8.4	39	1.1		15.3		5.2
13	3.0		22.0		8.4	13	1.2		14.0		3.1
26	4.0		22.0		8.4	26	1.3		13.9		2.5
39	5.0		21.9		8.4	39	1.4		13.8		2.1
13	6.0		21.9		8.4	13	1.5		13.7		1.6
26	7.0		21.9		8.4	26	1.6		13.4		1.6
39	8.0		21.7		8.4	39	1.7		13.2		1.2
	8.0		21.7		8.4		1.8		13.2		1.1

34697, 34696

FEO Inc

Laurie 18.7

Jordan Pond



ACADIA NATIONAL PARK
RESOURCE MANAGEMENT DIVISION

IND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

LAKE

Jordan P.

TOWN

Mt. Desert

BASIN

01

COUNTY

Hancock

1 4.6.0.8
MIDAS

5 0.1
BASIN

7 90
YEAR

9 0.9
MONTH

11 05
DAY

75 E.T.
AGENCY

77 02
PROJECT

13 1.0.2.5
TIME
(MILITARY)

17 P.E.A.R.S.A.C.C.A.N.D.E.R.S.O.N
SURVEYORS

32 21.0
WATER
TEMP

35 C
UNIT
C = °C
F = °F

36 0.6
Wind
Velocity

38 5
Wind
Direction

39 ☐
Check one at time of S.D.
Bright
(Distinct Shadows)

40 ☒
Cloudy Bright
(No Shadow)

41 ☐
Heavy
Overcast

42 1.6.6
SECCHI
DISK

45 M
M-Meter
Bottom

46 ☐
Put B if
S.D. hits

47 2
Season

79 0.1

CARD #



Check for D.O. Calibration

PROFILE DATA ONLY

79 0.2

Depth	M Or	Water Temp	C Or	Oxygen	Depth	M Or	Water Temp	C Or	Oxygen		
13	17	18	21	22	25	13	17	18	21	22	25
1.0	M	21.0	C	8.8		1.0	m	20.8	C	8.8	
26	30	31	34	35	38	26	30	31	34	35	38
1.1	M	21.0	C	8.8		1.0	m	17.0	C	11.0	
39	43	44	47	48	51	39	43	44	47	48	51
2.	M	21.0	C	8.8		1.1	m	14.0	C	11.4	
13	17	18	21	22	25	13	17	18	21	22	25
3.	m	20.9	C	8.8		1.2	m	12.5	C	11.6	
26	30	31	34	35	38	26	30	31	34	35	38
4.	m	20.9	C	8.8		1.3	m	11.1	C	11.6	
39	43	44	47	48	51	39	43	44	47	48	51
5.	M	20.9	C	8.8		1.4	m	10.4	C	11.6	
13	17	18	21	22	25	13	17	18	21	22	25
6.	m	20.9	C	8.8		1.5	m	9.8	C	11.4	
26	30	31	34	35	38	26	30	31	34	35	38
7.	M	20.9	C	8.8		1.6	m	9.1	C	11.2	
39	43	44	47	48	51	39	43	44	47	48	51
8.	m	20.9	C	8.8		1.7	m	8.8	C	11.2	

510100, 34776, 34780

REMARKS:

IND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

DEPARTMENT OF ENVIRONMENTAL PROTECTION

LAKE SURVEY FORM

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

LAKE

Jordan #2

TOWN

BASIN

COUNTY

1
MIDAS5
BASIN7
YEAR9
MONTH11
DAY75
AGENCY77
PROJECT13
TIME
(MILITARY)17
SURVEYORS32
WATER
TEMP35
UNIT
C = °C
F = °F36
Wind
Velocity38
Wind
Direction39
Check one at time of S.D.
Bright
(Distinct Shadows)40
Cloudy Bright
(No Shadow)41
Heavy
Overcast42
SECCHI
DISK45
F-Meter
Bottom46
Put B if
S.D. hits47
Season79
0.1

CARD #



Check for D.O. Calibration

PROFILE DATA ONLY

79
0.2

Depth	M Or	Water Temp	C Or	Oxygen	Depth	M Or	Water Temp	C Or	Oxygen
13 1.5	17 M	18 8.1	21 C	22 1.1.1	13 2.7.0	17 M	18 7.0	21 C	22 1.0.2
26 1.9	30 M	31 8.0	34 C	35 1.0.8	26 2.8.0	30 M	31 7.0	34 C	35 1.0.1
39 2.0.0	43 M	44 7.7	47 C	48 1.0.7	39 3.0.0	43 M	44 6.8	47 C	48 9.9
13 2.1.0	17 M	18 7.5	21 C	22 1.0.7	13 3.5.0	17 M	18 6.3	21 C	22 9.5
26 2.2.0	30 M	31 7.4	34 C	35 1.0.5	26 4.0.0	30 M	31 6.3	34 C	35 9.2
39 2.3.0	43 M	44 7.3	47 C	48 1.0.4	39 4.5.0	43 M	44 6.2	47 C	48 8.8
13 2.4.0	17 M	18 7.2	21 C	22 1.0.4	13 4.6.0	17 M	18 6.3	21 C	22 8.6
26 2.5.0	30 M	31 7.1	34 C	35 1.0.4	26 []	30 []	31 []	34 []	35 []
39 2.6.0	43 M	44 7.0	47 C	48 1.0.3	39 []	43 []	44 []	47 []	48 []

REMARKS:

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Jordan PondBASIN deepTOWN Mt. Desert

MIDAS

BASIN

SURVEYOR

4,6,0,8

0,1

A.N.D.E.R.S.O.N.

E.I.O.3,0,1

1

5

17

MURPHY

75

DATE

MILITARY

WATER

C
OF
F

WIN

DIR
CODEBRIGHT
(Shadow)CLOUDY BRIGHT
(No Shadow)

HEAVY OVERCAST

SECCHI

M
OF
FB if Disk hits
bottom

SEASON

YEAR MONTH DAY

TIME

TEMP

VEL.

CHECK

ONE

SECCHI

M
OF
FB if Disk hits
bottom

SEASON

9,0,0,5,1,5

1,0,5,0

4,8,0 F

0,35

X

1,4,0 M

1

7

13

32

36

39

CHECK

ONE

42

47

9,0,0,6,0,1

0,9,4,0

5,2,0 F

1,1,1

X

1,3,0 M

1

9,0,0,6,1,4

1,2,2,0

6,0,0 F

0,35

X

1,4,0 M

2

9,0,0,6,2,8

1,4,4,5

6,8,0 F

0,71

X

1,4,0 M

2

9,0,0,7,1,0

1,0,0,5

6,9,0 F

0,32

X

1,2,0 M

2

9,0,0,7,2,9

1,4,0,0

7,7,0 F

0,75

X

1,2,0 M

2

WIND SPEED

Water Surface

Land Area

0-7 Smooth to sm. wavelets
 8-11 Lg. wavelets, scattered whitecaps
 12-16 Small waves, frequent whitecaps
 17-24 Mod. crested waves, many whitecaps
 25-35 Lg. waves, foam, blown spray

Leaves rustle, wind on face
 Leaves & twigs in constant motion, flag waving
 Raises dust & loose paper, sm. branches moving
 Sm. trees begin to sway
 Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

1 Spring	3 Fall
2 Summer	4 Winter

Comments:

VOLUNTEER MONITORING LAKE DATA FORM

(Monitor at least twice monthly for 5 months)

LAKE Jordan Pond BASIN deep TOWN Mt. DesertMIDAS 4.6.0.8 BASIN 0.1 SURVEYOR M. U. R. P. H. Y. A. N. D. E. R. S. O. N E. I. 0.3.0.1

DATE			MILITARY TIME	WATER TEMP	C or F	WIND VEL.	DIR CODE	BRIGHT (Shadow)	CLOUDY BRIGHT (No Shadow)	HEAVY OVERCAST	SECCHI	M or F	B if Disk hits bottom	SEASON	
YEAR	MONTH	DAY													
9	10	08	09	09	35	72.0	F	0.6	1			X	1.25	m	2
7				13		32		36		39	CHECK ONE	42		47	

9	10	08	12	7	09	45	74.5	F	0.5	1	X			1.40	m	2
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9	10	09	10	5	10	25	21.0	C	0.6	5		X		1.66	m	2
---	----	----	----	---	----	----	------	---	-----	---	--	---	--	------	---	---

9	10	09	11	9	09	55	64.0	F	0.4	1	X			1.64	m	3
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WIND SPEED Water Surface

0-7 Smooth to sm. wavelets
 8-11 Lg. wavelets, scattered whitecaps
 12-16 Small waves, frequent whitecaps
 17-24 Mod. crested waves, many whitecaps
 25-35 Lg. waves, foam, blown spray

Land Area

Leaves rustle, wind on face
 Leaves & twigs in constant motion, flag waving
 Raises dust & loose paper, sm. branches moving
 Sm. trees begin to sway
 Whole trees in motion, why are you out here

WIND DIRECTION CODE

N 1	E 3	S 5	W 7
NE 2	SE 4	SW 6	NW 8

Season Code

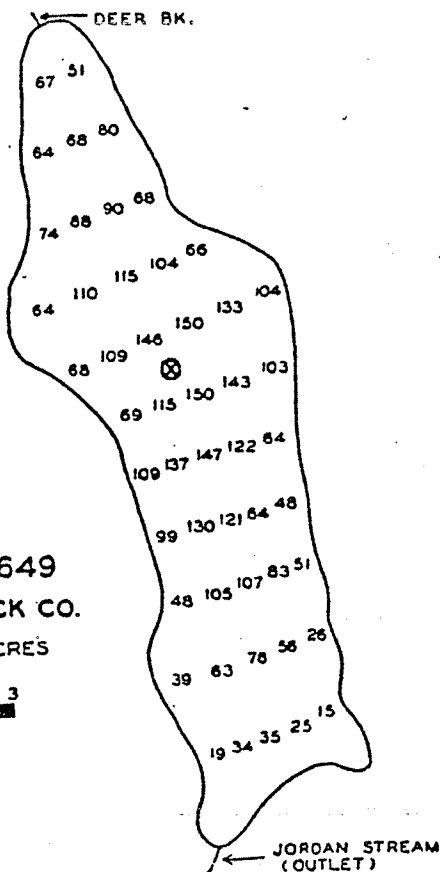
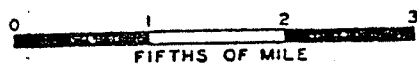
1 Spring	3 Fall
2 Summer	4 Winter

Comments: 8/9/90 low heavy overcast but no fog @ lake level
 9/5/90 done during enhanced lake sampling with Web Pearsall

Jordan Pond #4608

Surface Area	72 ha (178 a)
Max. Depth	45 m (148 ft)
Mean Depth	24.2 m (79 ft)
Volume	$1.7 \times 10^7 \text{ m}^3$ (13821 acre-feet)
Drainage Area	4.92 Km^2 (1.90 mi^2)
Flushing Rate	0.2 (flushes/year)

JORDAN POND P1649
MOUNT DESERT TWP. HANCOCK CO.
ELEV. 271 FT. AREA 187 ACRES



Jordan Pond # 4608

	<u>1981</u>	<u>1983</u>	<u>1984-85</u>	<u>1986</u>	<u>1987</u>	1988
Mean Secchi (m)	10.0*(3)	12.5*(4)	10.9	8.4*(3)	13.3	13.8
Min. Secchi (m)	4.5	9.0	5.8	7.0	11.0	11.0
TSI	NA	NA	14	NA	8	7
Color (SPU)		10			15	
pH	6.9(c)	6.8(c)			6.9(sur)	
Chla (ug/l)	0.6(f)					
TP (ppb)	3(c) (f)				1(1s) (c)	
	25(b) (f)				3(1s) (b)	
Alkalinity (mg/l)					4.0	

* Inadequate sampling season

(f) fall, (c) core, (b) bottom, (sur) surface

Jordan Pond provides good habitat for coldwater fish and is managed for salmon and togue. The pond lies within Acadia National Park.

Water quality is excellent as indicated by the transparency. Transparency is far above average for Maine lakes. Such water quality is a rare natural resource and should be carefully protected. Chla and TP values are low. The pond remains well oxygenated all the way to the bottom which is unusual in a lake as deep as Jordan Pond.

Jordan Pond's extremely slowly flushing rate makes it more sensitive to new sources of nutrients to the pond than a pond of equal size with a faster flushing rate. It is, therefore, very sensitive to even small increases in phosphorus loading. Park authorities should consider this when managing the Pond's small watershed.