~~PRELIMINARY~~ LAKE SURVEY
Field Form

Lake identification (name, ID number, bay or fjord receiving drainage) "UPPER NAKVASSIN" LAKE PORT HERBERT, BARANOF IS. 109-10-14

Lake area _____ & elevation _____. Weather & lake surface conditions OVERCAST, LIGHT RAIN IN MORNING. LIGHT BREEZE IN AFTERNOON. 0-5 MPH. ICE ON 85% OF LAKE. ICE VARIED IN THICKNESS TO 1½". ICE COVERED X, BUT WOULD NOT SUPPORT A PERSONS WEIGHT.

Dates 27 FEBRUARY 1981 Observers BUCHANAN, REIFENSTUHL, STRALEY, WARNER, ZISCHKE

PHYSICAL & CHEMICAL PARAMETERS:

Field Analyses:

Bathymetry: Give total number & map labels of depth transects conducted (e.g., 2:A→ B, C→ B) _____

Gear used _____. No. of major basins 1 and max. depth observed in each 61 M

No. & location of sampling station(s) _____

Secchi disc: Station X_1 & time 1357 h of measurement. Lake surface & sky conditions OVERCAST, LIGHT RAIN, SLIGHT WIND (NW), ICE 3-6CM THICK

Depth disc disappeared/reappeared 11.0 / 11.0

Parameters by depth:

Parameter profiles were measured from 1419 - 1510 h. Water samples for Hach kit determinations were collected from 1.0-m depth at 1223 / 1308 h & processed from 1250 - 1345 h, collected from mid-hypolimnion (41 m) at 1400 h & processed from 1410 - 1455 h, and collected from near bottom (60 m) at 1540 h & processed from 1545 - 1600 h. Parameter profiles were measured and water samples were collected at station X_1.

Times of profile measurements:→	Temperature (°C)		Conductivity (µmhos/cm)	DO (mg/l)		pH			Alkalinity (mg/l)	Hardness (mg/l)	Light intensity (foot-candles)
Depths(m)	meter	Pocket thermometer		meter	Hach kit	meter	Hach kit wide range	narrow range			1345h - 1355h
"above Surface"	2.9					Hydrolab					.71 x 10³
≈0.05	2.2										.30 x 10³
0.3											
0.5	2.8										.19 x 10³
1.0	3.2	4.0	33	12.80	.36=84.81 12.35	5.44		incorrect wheel	0.32 ml used = 4.8	0.49 ml used = 6.62	.19 x 10³
1.5	3.3										
2.0	3.3										.20 x 10³
2.5	3.4										
3.0	3.4										.17 x 10³
3.5	3.4										
4.0	3.4										.14 x 10³
4.5	3.4										
5.0	3.4		34	12.32		5.47					.12 x 10³
5.5	3.4										
6.0	3.4										.95 x 10²
6.5	3.4										
7.0	3.4										.79 x 10²
7.5	3.4										
8.0	3.4										.65 x 10²
8.5	3.4										
9.0	3.4										.52 x 10²
9.5	3.4										
10.0	3.4		34	12.30		5.49					.43 x 10²
10.5	3.4										
11.0	3.4										.35 x 10²
11.5	3.4										
12.0	3.4										.29 x 10²
12.5	3.4										

Depths (m)	Temperature (°C) meter	Temperature (°C) Pocket thermo-meter	Conductivity (µmhos/cm)	DO (mg/l) meter	DO (mg/l) Hach kit	pH meter	pH Hach kit wide range	pH narrow range	Alkalinity (mg/l)	Hardness (mg/l)	Light intensity (foot-candles)
13.0	3.4					Hydrolab					$.23 \times 10^2$
13.5	3.4										
14.0	3.4										$.19 \times 10^2$
14.5	3.4										
15.0	3.4		34	12.19		5.50					$.16 \times 10^2$
16.0	3.4										$.13 \times 10^2$
17.0	3.4										$.10 \times 10^2$
18.0	3.4										$.66 \times 10$
19.0	3.4										$.56 \times 10$
20.0	3.4		34	11.99		5.47					$.43 \times 10$
21	3.5										$.36 \times 10$ 21 m
22	3.5										$.30 \times 10$ 22 m
23	3.5										$.25 \times 10$ 23 m
24	3.5										$.20 \times 10$ 24 m
25	3.5		34	11.70		5.50					$.17 \times 10$ 25 m
26	3.6										$.14 \times 10$ 26 m
27	3.6										$.11 \times 10$ 27 m
28	3.6										$.10 \times 10$ 28 m
29	3.7										$.30 \times 1$ 29 m
30	3.7										
31	3.7										
~~Near bottom (___ m)~~											

(Continued on next page)

Lab Analyses:

Were water samples collected for lab analyses (Yes, No)(circle one), including metals (Y, N) Where? X1. Samples were collected from 1.0-m depth (Y, N) at 1223 1308 h and field processed from 1230 - 1320 h, & collected from 41 m at 1400 h & field processed from 1405 - 1415 h.

BIOLOGICAL PARAMETERS:

Phytoplankton: Water sample was collected at station X1 from 1.0 -m depth at 1223 1308 h and initially processed for subsequent analyses of chlorophyll a (Y, N) from 1250 - 1315 h, phytoplankton biomass (Y, N) from ___ - ___ h, and species identification (Y, N) at ___ h

Zooplankton:

Sample No.	Sampling station	Depth of station	Tow depth	Time at collection	Elapsed time of tow (secs.)	Tow angle	Collector
1.	X1	61	50	1511	62	90°	JZ
2.	X1	61	50	1517	65	90°	JZ

Dominant zooplankters observed and comments ___

Lake-resident fish(es): Summarize number of fish collected in the lake by gear type & species.

Gear type	Total time fished (net-, trap-hrs)	Catch (number, species, mean length in mm)	Frequency (fish/hr)
Σ GN( )			
Σ MT( )			

Comments: ___

Observations (e.g., aquatic macrophytes, aquatic invertebrates, fish-eating birds) and general remarks: ___

Depth (m)	Temperature (°C)	Light intensity (%)	DO (mg/l)	pH	Conductivity (µmhos/cm)	Alkalinity (mg/l)	Hardness (mg/l)
32	3.7						
33	3.7						
34	3.7						
35	3.7		11.18		35		
36	3.7						
37	3.7						
38	3.7						
39	3.7						
40	3.7		10.73		36		
41	3.7	4.0	0.33 ml × 34.31 = 11.32			0.50 ml used = 7.5	0.55 ml used = 7.43
42	3.7						
43	3.7						
44	3.7						
45	3.7		10.04		37		
46	3.7						
47	3.7						
48	3.7						
49	3.7						
50	3.7		8.89		38		
60	4.0		0.15 × 34.31 = 5.15				