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Questionnaire – Lakes & Bays

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LAKE & BAY HEALTH EVALUATION © 2009

The use of the Bacta-Pur® System is founded on solid and efficient technical support. The Bacta-Pur® System is comprised of various tools (ECOPROBIOTICS®, ECOPREBIOTICS™, the BACTIVATOR® family of on-site growth & conditioning equipment), and the knowledge and experience of how to make the system work for you. Each water body is unique. It is important to begin any health maintenance program by defining certain hydro-morphological, physico-chemical and biological realities. This information is combined with the goals and/or desires of the residents about the lake to develop a realistic management plan.

Once completed, this questionnaire will provide us an overview of the lake or water body. This questionnaire should be filled out as completely as possible; just leave blanks if information is lacking.

Customer:	
Address:	
City:	State/ Prov.
	Zip or
Country:	Postal Code:
Telephone:	Fax:
Lake Name:	Latitude:
Data certified	
by	
Name (print):	Title:
Signature:	Date:



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1. HYDRO-GEOMORPHOLOGY:

Please provide a sketch or preferably a bathymetric chart of the lake/bay or water body in question showing the following information:

- Shape,
- Dimensions,
- Depth contours if possible or at least the deepest points,
- Water entrance and exit,
- Average depth,
- Sediment (rock, gravel, clay, sludge) show areas if different zones,
- Principal wind direction and strength,
- Magnetic north,
- Forests around lake/bay (_ % cover),
- Grass around lake/bay (__ % cover)
- AERIAL PHOTOS OF PROBLEMATIC AREA.

2. WATER INPUT SOURCES:

		Bimor	nthly W	ater Inp	ut (%)	
	J/F	M/A	M/J	J/A	S/O	N/D
Surface run-off:						
Stream or river:						
Springs:						



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3. WATER FLOW RATES:

Flow Rates (check: m³/d o or MGD o):

		Aver	age Bin	nonthly	Flow	
	J/F	M/A	M/J	J/A	S/O	N/D
Surface run-off:						
Stream or river:						
Springs:						

Tidal exchange in marine (% per day):_____.

4. WATER PHYSICAL-CHEMISTRY:

- Sampling should be conducted in the early morning and in deepest part of lake. Location should be marked ("S") on chart in Section 1.
- Data should be collected at 1 meter intervals in lakes deeper than 10 m and at 0.5 m intervals in shallower lakes.
- Oxygen should be measured at dawn or in early morning, to determine minimal concentrations.

Date:			Time:	(24 h o, AM c	o, or PM o)	
Depth (m)	°C	O2		Depth (m)	°C	O2	
(m)		O2 (mg/L)		(m)		O ₂ (mg/L)	

Parameter	Epilimnion	Hypolimnion
рН		
Carbonate Alkalinity (mg/L)		
Hardness (mg/L)		
Total soluble* Iron (mg/L)		
Total soluble* ortho-phosphate		
During hottest part of summer		
°C		
O ₂ (mg/L)		
рН		
Salinity if appropriate (‰)		

, bre	Hiller	Sa	шр	ies	ю	U.	431	III.
			-	-		-		

Secchi disk depth (m): ____ Take reading on sunny side of boat or dock.

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5. AQUATIC BIOLOGY:

List principal species

Locate position, using code number of problematic species (e.g plants P1-8), on chart in Section 1 above.

Fish	Plant	Algae
F1.	P1.	A1.
F2.	P2.	A2.
F3.	P3.	A3.
F4.	P4.	A4.
F5.	P5.	A5.
F6.	P6.	A6.
F7.	P7.	A7.
F8.	P8.	A8.

6. POLLUTIONAL SOURCES:

Check appropriate boxes and locate, using code number, on chart of Section 1 above.

	4
X1. Septic systems	
X2. Agricultural run-off	
X3. Waste water treatment plant effluent	
X4. Storm drain	
X5. Horticultural run-off	
X6.	
X7.	
X8.	
X9.	

7. WATER USE:

Rank activities in order of importance; 1 is the most important.

	Rank
Swimming	
Fishing	
Motor Boating	
Sailing	
Irrigation	

8. EXISTING AERATION:

Fill in information and locate position, using code number, on chart in Section 1 above.

Manufacturer: Compressor,	Model	HP	PSI	SCFM	Diffuser Type	Location
Blower, Fountain			max.			
						D1.
						D2.
						D3.
						D4.
						D5.



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DESCRIPTION OF PROBLEMS AND/OR GOALS (a wish list):
0. BIOLOGIST'S NOTES & OBSERVATIONS (photos of problems as appropriate):
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