

**LOWER BEVERLEY LAKE ASSOCIATION****2001 ANNUAL GENERAL MEETING**

July 17, 2001 7:30 p.m. at United Church Hall, Delta

↑  
18**MINUTES**

1. **CALL TO ORDER AND WELCOME:** Santos expresses appreciation to United Church women for food and the United Church for their facility. Pleased with turnout.

2. **GUESTS :**

**Township of Leeds and 1000 Islands:** Deputy Reeve Velma Kelsey

**Township of Rideau Lakes:** Reeve Ron Holman  
Deputy Reeve William Morris  
Councillors Linda Carr, Rita Purcell, Paul Smith

3. **INTRODUCTION OF OFFICERS:** By Santos.

Don Santos	President	Betty Penstone	Treasurer
Millard Goodsell 1 <sup>st</sup>	Vice-President	Doug Kilpatrick	Executive Secretary
John Truyens	2 <sup>nd</sup> Vice-President	Janet Capell	Recording Secretary

4. **ANNUAL GENERAL MEETING ATTENDANCE PROFILE:**

1996:	0 guests	27 members	27	
1997:	8 guests	17 members	25	
1998:	3 guests	15 members	18	408 Newsletters
1999:	5 guests	34 members	39	390 Newsletters
2000:	5 guests	46 members	51	401 Newsletters
2001:	5 guests	65 members	70	

↑6

↑71

5. **IN MEMORIAM:** Mary Crowder, Beulah Glover, Don Kreiger, Jean Louis Nantel, Alan Oddy, Douglas Penstone, Myrla Saunders, Gertrude Truyens

6. **HIGHLIGHTS OF THE ANNUAL GENERAL MEETING OF 19 JULY 2000:**

Highlights of minutes [included in hand outs] summarized by Santos.

**Motion:** That the minutes of the Annual General Meeting of 2000 be adopted.

**VanVoorhis/ Santos Carried**

Kilpatrick suggested that votes be decided by show of hands. Santos agreed when decision seemed close.

7. **TREASURER'S REPORT:** By Betty Penstone

Highlights:	Balance at 17 July 1997: \$1,018.76	
	Balance at 18 July 1998: \$2,027.58	Memberships 1998 up to 18 July 1998: 81
	Balance at 17 July 1999: \$3244.98	Memberships 1999 up to 17 July 1999: 93
	Balance at 19 July, 2000 \$2529.56	Memberships 2000 up to 19 July 2000: 71
	Balance at 17 July, 2001: \$2737.75	Memberships 2001 up to 30 June 2001: 71
	Collected for Fire Departments (1998): \$680.00	
	(1999): \$815.00	
	(2000): \$835.00	
	(2001): \$899.00	

Kilpatrick noted that Bank Balance would soon be reduced by:

Fire Department Donations:	Approx. \$805
Boat Ramp Signs	\$750
AGM Expenses:	\$100
Total:	\$1655, resulting in a balance of approximately \$1080.

LBLA donated \$660 to Rideau Lakes Fire Department [Delta Volunteer Firefighter's Association] and Norm Brown was presented with the cheque. The donation was made now instead of waiting until fall to help the department sooner. Lower

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Beverley Lake Association was awarded a plaque from the fire department, and Penstone showed everyone.

**Motion:** That the treasurer's Report be adopted. **Penstone/ Angermann** **Carried**

**8. WATER SAFETY/SAFE BOATING:****a. Campaign on Peak Weekends at LBL Twsp. Park, summer 2000.**

- Last of three was held on Civic Holiday Weekend, 05 Aug 2000.
- Worthwhile in that OPP and LBLA "showed the flag" concerning Safe and Considerate Boating.
- Very expensive in terms of person-hours expended per contact with boater. From 310 visits to campsites, only 44 boaters were contacted and provided with Safe Boating Guides and LBLA Safe and Considerate Boating publications
- OPP cannot afford personnel and cruisers with this cost effectiveness
- Difficult for LBLA members to give their time on Saturday mornings. Of 20 people who had indicated their willingness, only 8 were able to participate. Additional people were recruited on short notice.
- The Executive decided to abandon this model of activity at least until it can be made more efficient.
- We are indebted to the following people who gave up one or more Saturday mornings: Ted Brett, Frank and Sandy Ellis, Neil Herber, Jan Reatherford, Ann and Jamie Kilpatrick, Stewart and Janet Nichol, Kathie Smith and Doug Kilpatrick [who organized all three].

**b. Outreach for 2001 Season:**

- At LBL Twsp Park, on the recommendation of the Executive: Arrangements were made with the Superintendent to make distribution of publications part of the registration procedure. Boaters receive Safe Boating Guide and Bookmark, LBLA Safe and Considerate Boating, Reporting Boating Bad Behaviour. Anglers receive LBLA Fishing 2001 and Co-operative/Voluntary Angling Survey forms.
- At other business establishments in Delta and Lyndhurst – supplies of the above have been placed at three locations in Delta and one in Lyndhurst. They are replenished throughout the season.
- OPP marine patrols have been requested and the usual reply has been received; "Thanks for the info, we'll do what we can".

**c. Boating Operator Competency/Pleasure Craft Operator Card (PCOC) Instruction/Exam**

- Pursuant to the direction of our AGM 2000, Kilpatrick arranged for the instruction and exam. Twelve people have pre-registered. The instruction and exam will be given. Further candidates will be accepted on a first-come, first served basis. Note that all operators of Pleasure Craft under 4m/13ft fitted with a motor and used for recreational purposes, and personal watercraft must have a PCOC by September 15, 2002.
- The instruction and exam are being given in Delta United Church Hall, Saturday morning July 21, 2001. Instruction starts 9:00 a.m., exam at approx. noon; juice and soft drinks provided, suggested to bring a snack. Fee for instruction, exam and PCOC issuance is \$50; fee for exam and PCP issuance only is \$30.
- Online instruction, exam and PCOC is also available.

**d. Safe Boating Guide – Latest Revision**

- The latest revision is identified by "Revised January 2000" inside the back cover.

**e. Speed Limit Signs:**

- Kilpatrick has one "10/6-30/100" and two "No Waves/Wake" signs on hand. First come, first served.

**9. COTTAGE WATCH:** John Truyens

- Enrolment status: 128 cottages now participating. Truyens asked those in attendance to sign up if they haven't already. Explains it is similar to Neighbourhood Watch. Signs are available @\$20 each.

**10. WATER LEVEL MONITORING AND CONTROL:** Don Santos

- Lower Beverley Lake is in enriched range, but has been improving since 1990 (with 1998 being a poor year); 2001 so far has been a good year for clarity. Phosphorus measurement results won't be available until later this year.
- Veligers (larval zebra mussels) were found in 1998, but no report of adults yet.
- Discussion: Cal Smith comments: "take looks better this year than in a long time".
- Kilpatrick: "Santos is the only one who takes secchi readings"; Rideau River is loaded with adult zebra mussels, so they'll (adults) probably be here soon, and also notes that people might want to consider ZM

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filters (Dave Galway installs them).

**11. LOWER BEVERLEY LAKE FISHERY:** Ted Brett

Ted Brett is a Fish and Wildlife Guardian. He explains that he has no authority, and hands out pamphlets. Americans are not permitted to act as a wildlife guardian. The next course is in September.

Co-operative Angling Survey forms will be left at various places (already at Wings).

Voluntary boat counts: take count of boats and people in boats.

Discussion: "What's the purpose?" Brett replies that they get an idea of angling pressure and suggests that even counts in parts of the lake should be useful. VanVoorhis: "Will MNR use this to do something useful?"

Kilpatrick replies: They need to look at the whole picture and this is part of the picture." Brett notes that the forms are mailed directly to MNR at the address on the back of the form.

NSCIN fishing survey: Brett says most notable results: no unhealthy fish caught and lots of young fish; MNR has been requested to do the survey again. Kilpatrick highlighted results from handout.

**12. SIGNS AT BOAT RAMP:** Doug Kilpatrick

Four have been in place in the summer since 1994 and 1995 at Lower Beverley Lake Park, end of William St. in Delta, Furnace Falls in Lyndhurst and behind Kendrick's Park. They are showing signs of wear, a bit of vandalism, contain some out-of-date information and are considered to be too wordy.

Executive decided to remedy these problems. New signs on refurbished mountings will be in place for Summer 2002.

Doug Kilpatrick attending to this. Est cost for 4 signs @ \$160 each + taxes = \$750; Sample brought to meeting.

VanVoorhis asks: "has it already been approved?" Reply: Yes.

**13. TAKE A LITTLE LEAD OUT:** Frank Ellis

Frank Ellis is taking over for Clare Angermann, nothing to report now.

**14. LOON NESTING PLATFORMS:** Earl Patric

Patric explains purpose of loon platforms is to overcome two problems: predation and water level fluctuation

Committee was formed: Ellis, Kilpatrick, Laforty, Patric, Angermann, and VanVoorhis.

Applied for grant from government (and have been awarded \$250). Kilpatrick and Patric built two platforms for which they supplied most of the materials. The platforms were not deployed in time for nesting in Spring 2001.

Patric appreciates interest, and emphasizes platforms should be deployed in areas meeting criteria for loon nesting sites. Problem: need platforms in at ice-out.

Discussion: "How are they secured?" Reply: "with four concrete blocks", VanVoorhis: "Loon's seemed to do really well this year maybe because of low water levels"; Katherine Smith wants the criteria.

Kilpatrick adds: intend to construct two more platforms for deployment next spring.

**15. LBLA WEBSITE: LINK TO FOCA:**

Website managed by Neil Herber and Jan Roatherford. New link to FOCA is in progress.

**16. CATARAQUI CONSERVATION FOUNDATION CONTRIBUTION REQUEST:**

Kilpatrick reads the rationale behind supporting this cause.

**Motion:** That in response to the request of November 28, 2000 from the Cataraqui Conservation Foundation, the LBLA make a donation of \$50.00 and that similar requests from the Foundation be handled by the Executive of the LBLA.

**Kilpatrick/Gagnon Defeated (16/18)**

Discussion: VanVoorhis asks: "How will this help LBLA?" Kilpatrick replies that it would be indirect.

Nick Neily: "Should not let executive have control over these types of amounts"

Kilpatrick placed a box at the back of the hall to receive donations from those who wished to make one.

**17. CONSTITUTION / BY-LAWS FOR LBLA:**

Discussion: Kilpatrick recommends because it saves reinventing the wheel, reduces confusion over procedures, necessary in event of incorporation which gives standing and protects executive. FOCA recommends incorporation.

Cal Smith: "likes low-key, unstructured approach, but is executive liable?" Answer is Yes.

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Jan Reatherford: "What prompted issue? These things tend to take up a lot of time" Reply: concerns about other associations.

Neil Herber: "It's a rathole- constitution does not protect from liability".

This issue is left for the new executive to address.

**18. ELECTION OF OFFICERS** (For the period beginning with elections at AGM 2001 and ending with elections at AGM, 2003):

Kilpatrick voices need to address the Executive Secretary position prior to electing new officers. Santos agrees.

**Motion:** Create a position called Executive Secretary to be held by a local resident to represent the lake association. This will be a two year term, but this person can resign at any time. This position is added to the current list of positions and becomes an elected position. This motion is effective tonight.

**23 in favour/ 21 opposed Carried**

Nominating committee recommendations:

President	Millard Goodsell
1 <sup>st</sup> Vice-President	Ed VanVoorhis
2 <sup>nd</sup> Vice-President	John Truyens
Treasurer	Betty Penstone
Recording Secretary	David Gagnon

Nominations from the floor:

1 <sup>st</sup> Vice-President	Stewart Nicol	nominated by Ann Kilpatrick
Executive Secretary	Doug Kilpatrick	
All in favour for Ed VanVoorhis:		25 votes
All in favour for Stewart Nicol:		21 votes

The balance of the Nominating Committee recommendations plus Doug Kilpatrick for the position of Executive Secretary was elected.

**New Executive:**

<b>President</b>	<b>Millard Goodsell</b>
<b>1<sup>st</sup> Vice-President</b>	<b>Ed VanVoorhis</b>
<b>2<sup>nd</sup> Vice-President</b>	<b>John Truyens</b>
<b>Treasurer</b>	<b>Betty Penstone</b>
<b>Recording Secretary</b>	<b>David Gagnon</b>
<b>Executive Secretary</b>	<b>Doug Kilpatrick</b>
<b>Past President</b>	<b>Don Santos</b>

**19. OTHER ITEMS OF INTEREST:**

**Motion:** To request township for new launching ramp at the Lower Beverley Township Park.

**Carried**

**20. ANNUAL GENERAL MEETING 2002:**

Goodsell: We will use the hall at Delta Fairgrounds as it has a larger capacity.

**Motion:** That the 2002 AGM be the third Wednesday in July in the evening.

**Carried**

**21. MEMBERSHIP CONCERNS:**

Ellis: Concerned about sewage disposal system: recommends Sunmar composting toilet

Kilpatrick replies: Effort in under way to require that sewage systems are inspected and required to be efficient when there is a change of ownership of a property which impinges on a waterbody. At AGM 2000, LBLA by motion supported the initiative by CRLSN to request the Ministry of Municipal Affairs and Housing to indicate municipalities have the authority required. MMAH is about to publish a proposed Re-Inspection Package, and a team has been appointed by CRLSN to communicate with associations and municipalities. The

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objective is to encourage municipalities to produce official plans and/or by laws which are consistent on a watershed basis. Because of timing, ARLA has not yet met concerning the latest information. The aim is for consistency between ARLA and CRLSN.

Kilpatrick: Towing sports prohibited during the same times and visibility conditions as require navigation lights to be shown. ARLA and CRLSN are having trouble getting clear answers from the Office of Boating Safety. The effort continues.

Ellis: PWCs – too fast – too close to shore.

**Motion:** LBLA supports the bill before senate which would allow local governments to regulate PWCs.  
25 in favour/ 18 opposed

**Carried**

Discussion: VanVoorhis: We already had a petition opposed to PWC curtailment.

Ellis: How do we get irresponsible PWC operators to "wisen-up"?

What happened to horsepower limits proposed at a previous AGM? A motion was passed at the 1992 AGM that the issue be dropped.

Angermann: Need trashcans in Delta

Holman: looks forward to working with the president of the association

Bea Woods: concerned about noise after 12:00. Holman says: no by-law in Rideau Lakes, but Thelma says Leeds and 1000 Islands does (after 11:00 p.m.).

*Thelma*

**22. ADJOURNMENT:**

**Motion:** to adjourn meeting at 9:40 pm.

**Carried**

FISHERY  
on  
Lower Beverley Lake.

Agenda  
ITEM 11.

NEAR SHORE COMMUNITY INDEX NETTING (NSCIN)

conducted by  
Ontario Ministry of Natural Resources, Kemptville, and  
Students of the Biology Department, Queen's University, Kingston  
during 14 - 24 August, 2000.

(Summary prepared by Doug Kilpatrick, Exec Sec Lower Beverley Lake Assoc'n, 30 Jun 2001.)

1. BACKGROUND.

- a. LBLA AGM, 17 Jul 1999:
  - Low numbers of some species a concern;
  - Commercial netting may be a problem;
  - MOTION: Request MNR to restrict commercial netting.
- b. Meeting, 17 Jun 2000, arranged by Doug Kilpatrick:
  - Attended by MNR Area Biologist, MNR Water Resources Technician;  
Commercial fisher, members of LBLA.
  - Outcomes:
    - i. Commercial netting, as regulated, is probably beneficial.
    - ii. Fish Sanctuaries are not feasible.
    - iii. Voluntary Activity Counts and Co-operative / Voluntary Angling Surveys } Should be conducted by LBLA volunteers.
    - iv. Bass protection regulation should be drafted for MNR consideration.
    - v. Stocking is considered by MNR to be not necessary for Lower Beverley L.
    - vi. NEAR SHORE COMMUNITY INDEX NETTING should be conducted on Lower Beverley L. soon as possible.

2. NEAR SHORE COMMUNITY INDEX NETTING:

- Begun in Ontario lakes in 1991.
- Netting is in the littoral zone. (Shore water to the depth of sunlight penetration.)
- Random selection of sites, by non-human means, 21 in LBL, approx 24 hours each.
- Objectives: Track changes in species' health and demography;  
Track changes in ecosystem health and function;  
Compare with other lakes. (Through standardized techniques.)
- Workers: All MNR and Queen's University personnel;  
Volunteers from LBLA could not be accepted except to use dock of Ted Brett.
- Report: 47 pp. Received from MNR by Kilpatrick 25 Jun 2001.  
Much validation of statistical methods and graphical presentations.
- Conclusions and Recommendations:
  - Data "over long periods of time" are required;
  - Little of a firm nature was stated at this time.

3. FUTURE NSCIN on LOWER BEVERLEY LAKE:

- LBLA Executive has requested this of MNR for year 2003 or earliest.

4. STATISTICAL SUMMARY:

(In 1938, 29 species were found.  
(In 2000, 14 species in NSCIN.

Why? }

See chart OVER.

## Summary of MNR/Queen's University Report, pp 3-36,

Agenda ITEM 11.
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Prepared by Doug Kilpatrick, Exec Sec Lower Beverley Lake Assoc'n, 30 Jun 2001.

SPECIES	TOTAL NETTED	% OF TOTAL	COMPARED TO OTHER ONTARIO NSCIN LAKES				POPULATION CONSIDERED TO BE:
			ABUNDANCE	SIZE	AGE	WEIGHT	
1 BLUEGILL	1560.	78.	upper Medium	Medium	Older	Lighter	Reasonably healthy
2 PUMPKINSEED	157.	8.	Medium	Medium	Older	Lighter	Fairly healthy
3 BLACK CRAPPIE	65.	3.	Medium	Small	Older	Lighter	Fairly healthy
4 BULLHEAD, BROWN	65.	3.	Medium	Small	No comment	No comment	No comment
5 YELLOW PERCH	61.	3.	High	Medium	Older	Lighter	No comment
6 BOWFIN	27.	1.	No comment	No comment	No comment	No comment	No comment
7 LARGEMOUTH BASS	22.	1.	Medium	Medium	Younger	Much Lighter	Healthy
8 BULLHEAD, YELLOW	20.	1.	No comment	No comment	No comment	No comment	No comment
9 WHITE SUCKER	14.	1.	Medium	Small	Younger	Lighter	No comment
10 NORTHERN PIKE	11.	under 1.	Low*	Medium*	Younger*	Lighter*	Healthy*
11 ROCK BASS	7.	under 1.	Low*	Larger*	Older*	Heavier*	Healthy*
12 GOLDEN SHINER	5.	under 1.	} No cmnt	No comment	No comment	No comment	No comment
13 GRASS PICKEREL	1.	under 1.					
14 SMALLMOUTH BASS	1.	under 1.					
<b>TOTALS:</b>	<b>2016.</b>	<b>100.</b>	--	--	--	--	--

1. \* CAUTION: Because of the small sample, be cautious in comparing to other Ontario benchmarks.

## 2. DISCUSSION:

-- Community quite diverse; appears to be quite healthy.

-- A greater community of Lower Beverley Lake appears to be somewhat different from other waterbodies sampled:

	HIGH occurrence	occurrence	occurrence	occurrence	LOW
Other Waterbodies:	White sucker -	Smallmouth bass -	Yellow perch -	Northern pike -	Pumpkinseed - Walleye
Lwr Bvrly L.:	Bluegill	Pumpkinseed	White sucker		"No" Walleye

END.

**LOWER BEVERLEY LAKE ASSOCIATION**  
**FINANCIAL STATEMENT**  
 January 1, 2001 through June 30, 2001

BANK BALANCE as of January 1, 2001 \$1,765.50

ASSETS & REVENUES

Bank Interest	.30	
Cottage Watch – signs	20.00	
Fire Departments – 54 donations	805.00	
Memberships 71 paid fees @ \$15.00 per family	1,215.00	
Donations to defray cost of Newsletter – 58	<u>386.34</u>	<u>2,426.64</u>

**TOTAL ASSETS and REVENUES** **4,192.14**

DISBURSEMENTS

Administration – General	64.29	
Advertising	3.68	
Annual General Meeting	1.92	
Boating Safety	.96	
Cottage Watch	686.04	
FOCA (Fed'n Ontario Cottagers Assocs) Membership	283.55	
Newsletter, Stationery, Printing, Postage	231.10	
Sewage Systems and Shoreline	6.90	
Wildlife (Aquatic, Birds, Vegetation)	<u>175.95</u>	

TOTAL DISBURSEMENTS 1,454.39

BANK BALANCE AS OF JUNE 30, 2001 \$2,737.75

DONATIONS for Volunteer Fire Departments to the end of this period:

Bast and S Burgess (Rideau Lakes)	38 for a total of \$560.00	
South Crosby (Rideau Lakes)	7 " " " 130.00	
Rear of L & L (Seeley's Bay/Leeds & 1000 Is)	9 " " " <u>115.00</u>	
<b>TOTAL</b>	<b>54 " " " \$805.00</b>	

DONATIONS TO FIRE DEPARTMENTS - 2000 Totalled \$899.00

- BASTARD & SOUTH BURGESS (Rideau Lakes) - 41 donations \$684.00  
 Purchased HiVolume fittings for new tanker & existing pumper
  
- SOUTH CROSBY (Rideau Lakes) - 8 donations \$ 85.00  
 Put towards raising funds to purchase a boat pump that will assist in fighting fires on islands and cottage properties which will allow them to attack fires from the water side
- REAR OF L & L (Seeley's Bay/Leeds & 1000 Is) - 11 donations \$130.00  
 Put towards raising funds to be used for ongoing training & purchasing equipment. Expected in late winter to have their new defibrillator in service and will have trained their firefighters on its use.

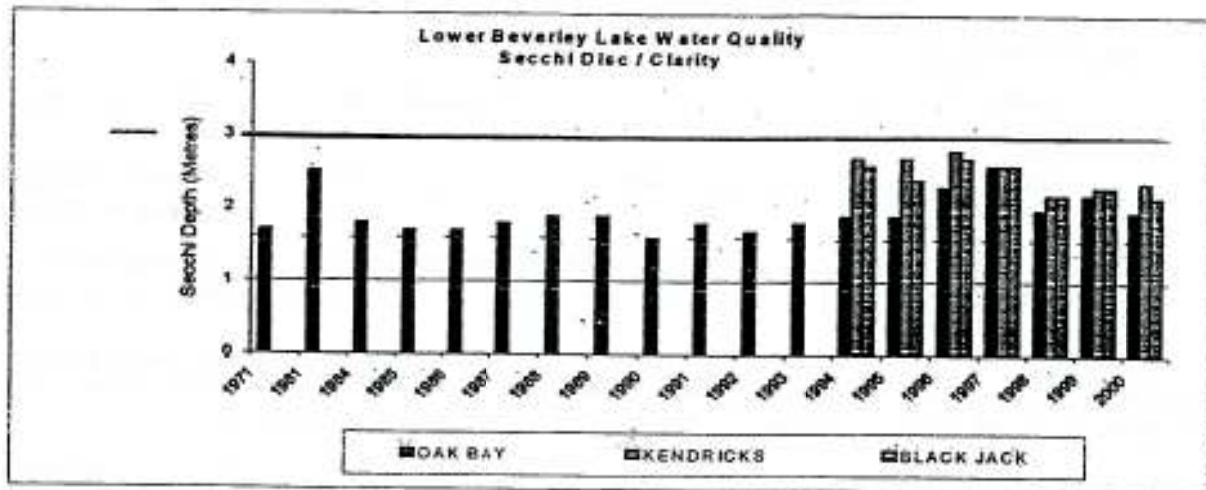


## LOWER BEVERLEY LAKE WATER QUALITY

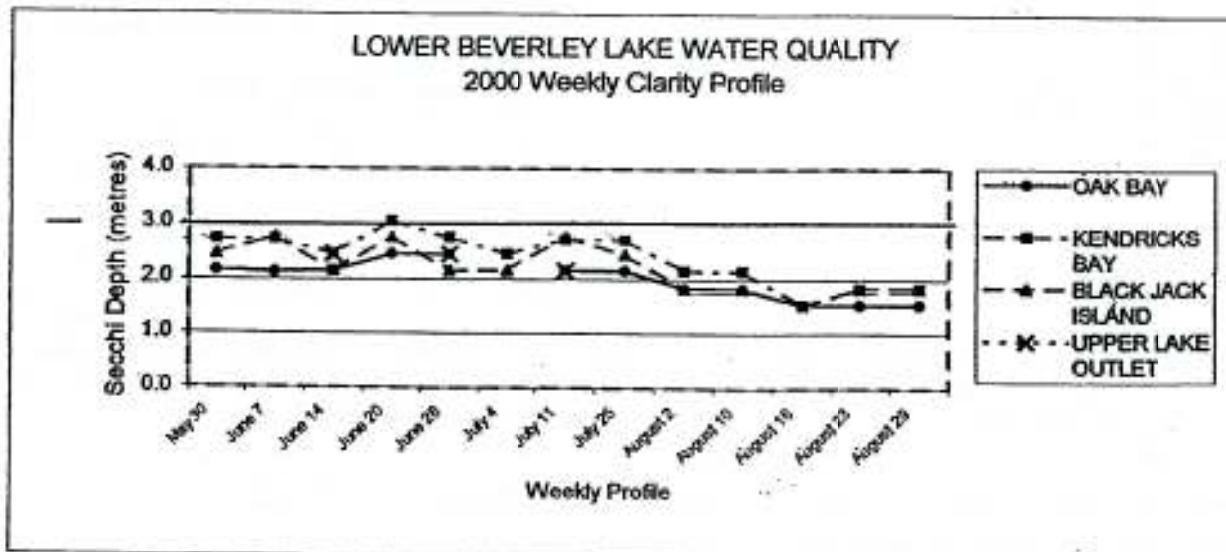
### WATER CLARITY

Measurements are made with a Secchi disc to determine the depth of effective light penetration into the lake. The greater this depth, the clearer the water. If the Secchi disc reading is less than 3 metres, the lake is considered "enriched" (too many nutrients). Data available back to 1971 indicate LBL measurements have been consistently in the enriched range at less than 3 metres, but improving since 1990. Clarity sampling was expanded in 1994 to include Kendricks Bay and the area north of Black Jack Island, in addition to Oak Bay (the area south of the Narrows near the mouth of Morton Creek). In 1998, measurements were initiated at the Upper Lake dam in Delta to monitor input into LBL, and indicate Upper Beverley Lake water quality is generally slightly better.

Results deteriorated in 1998, due in part to unusually high water levels in early July that resulted in increased watershed runoff. Clarity improved in 1999 consistent with a regional trend attributed to low rainfall and nutrients staying on land and in wetlands. Measurements in 2000 display a slight decline (still better than 1998), but still in the enriched range at less than 3 metres, reflecting higher water levels/watershed runoff and unusually heavy algal blooms in August.



The annual Secchi disc data represent the average of weekly samples taken through each summer. It is interesting to see the change in water clarity as the lake progresses through its seasonal cycle. Experience in 2000 demonstrated better clarity through July, but deteriorated significantly in August reflecting high water levels, increased watershed runoff and severe algal blooms.



# LOWER BEVERLEY LAKE WATER QUALITY

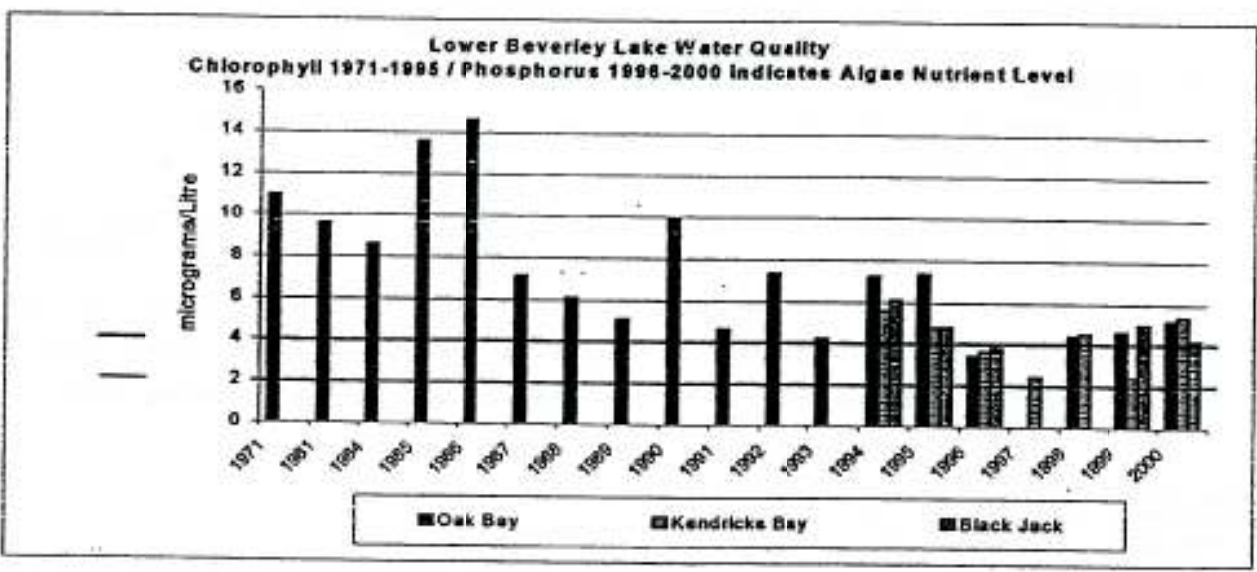
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ITEM 10.

## ALGAE LEVEL

Water clarity is an indirect measure of the algal density in the lake, which is affected by the level of nutrients present. Water samples are chemically analyzed to determine the nutrient level (the lower the level the better). Chlorophyll concentration measurements (an indicator of the amount of microscopic algae in the water) were used through 1995: 4 or more micrograms/litre indicates high algal density and is considered "enriched" (too many nutrients). LBL measurements were above this level through 1995.

In 1995 the Ministry changed the analysis to phosphorus concentration (the single most important nutrient governing the level of algae in the water). On phosphorus measurements, we improved and fell into the "moderately enriched" (some nutrients) category (2 to 4 mg/L), until our improving trend reversed in 1998.

In 1999 nutrient levels fell in many Ontario lakes, and measurements in Kendricks Bay matched this trend regaining a "moderately enriched" condition, although Oak Bay and Black Jack Island remained "enriched". Measurements in 2000 were above the "enriched" threshold (above 4 mg/L) reflecting high algal levels in August.



## ZEBRA MUSSELS

In 1998, we were able to expand our testing to include participation in the Federation of Ontario Cottagers' Association (FOCA) Zebra Mussel Monitoring Program. The analyses indicate the presents of the first stage of Zebra Mussel activity in 4 of 5 areas sampled in Lower Beverley Lake (Kendricks Bay, mouth of Della/Mill Creek, Marble Island/Dawson Bay, and Oak Bay).

## WATER TESTING OVERVIEW

Both Lower and Upper Beverley Lakes are among more than 20% of lake locations being sampled across Ontario classified as "enriched" (high in nutrients) with comparatively poor clarity (less than 3 metres). Maintaining and evaluating long term data is the heart of the Lake Partner Program philosophy and crucial to understanding lake quality trends. Our current testing programme includes clarity and phosphorus measurements at Oak Bay (unsettled area/infrequent input from the Rideau chain), Kendricks Bay (LBL deep basin), Black Jack Island (input from Cooligan Creek), and Upper Lake dam (inlet).