

DARRIN FRESH WATER INSTITUTE

Sandra A. Nierzwicki-Bauer, Director

Richard F. Bopp
Associate Director of
Hudson River Program

Charles W. Boylen
Associate Director of
Environmental
Assessment Programs

Jonathan P. Zehr
Associate Director of
Research and
Educational Programs

May 5, 1997

Mr. Jim Davis
Eagle Lake
Ticonderoga, NY 12883

Dear Jim,

The samples provided from Eagle Lake on April 29, 1997 have been analysed for alkalinity (buffering capacity) and coliform bacteria. The results from these analyses allow a fundamental understanding of the "health" of Eagle Lake with regard to acidification and possible septic contamination from faulty household systems. All results are given in the following tables with a brief interpretation with respect to Eagle Lake.

From all the samples provided, there appears to be no sign of coliform bacterial contamination to the lake from septic sources from the point and time this sample was collected. Fecal coliform levels were well below the New York State DOH standards (see below) for waters used for contact recreation and is not of a concentration that would normally indicate a faulty septic system or any other significant point source. Please bear in mind that these results indicate conditions **only** at the time of sampling and can change through time.

Maximum Allowable Levels of Coliform Bacteria in Waters Used for Contact Recreation (NYS Dept. of Health)		
Bacterial Test	Max. 5 Sample Mean	Max. Single Result
Total Coliform	2400 per 100 mls	5000 per 100 mls
Fecal Coliform	200 per 100 mls	1000 per 100 mls



Adirondack Field Station at Bolton Landing
Box 84C • Bolton Landing New York 12814 • Phone (518) 644-3541 • Fax (518) 644-3640
Rensselaer Polytechnic Institute • Troy, New York 12180-3590 • (518) 276-6757



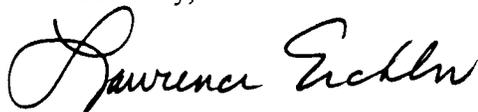
Data For Eagle Lake
Samples Collected April 29, 1997

	East End - Inlet	East Bay
Total Coliform (colonies/100ml)	690	370
Fecal Coliform (colonies/100ml)	67	8

The pH of the sample collected (7.40) showed slightly alkaline waters, and within ranges that are not inhibitory to species most desirable for Eagle Lake. The alkalinity measurement (31.0 mg/l as CaCO_3) shows the water's ability to neutralize acidic inputs. The main source of these inputs would be from acid precipitation. The alkalinity of Eagle Lake appears to be sufficient to neutralize acid inputs, but continued monitoring of this parameter is important to track the possible effects of acid precipitation.

If we can be of any further assistance, please feel free to contact us.

Sincerely,



Lawrence Eichler
Research Scientist

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Mr. Peter Buechner
7 Park Lane
Caldwell, NJ 07006

BILL FOR LABORATORY SERVICES

2	Fecal Coliform Bacterial Analysis @ \$7.50 ea.	15.00
1	Alkalinity Analysis @ \$10.00 ea.	10.00
	TOTAL	\$25.00

Please make check payable to:

Darrin Fresh Water Institute
5060 Lakeshore Drive
Bolton Landing, NY 12814
Attn: L. Eichler

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