

LONG LAKE ASSOCIATION
Long Lake, NY
2020 Annual Report
Fall 2020

The mission of the Long Lake Association is to preserve and enhance the health and beauty of the lake and to promote its wise use for the benefit and enjoyment of present and future generations.

Due to the COVID-19 Pandemic, the 2020 seasonal activities of the Long Lake Association (LLA) were curtailed, including the Annual Get-Together where we provide an update, or Annual Report.

Acknowledgements:

The LLA would like to thank all of you for your continued support of our efforts to meet our mission and the many volunteers and partners, including the LLA Board Members, Town of Long Lake, Paul Smith's Adirondack Watershed Institute (AWI), NYSDEC, Adirondack Park Invasive Plant Program (APIPP), the Nature Conservancy, Hamilton County Soil and Water Conservation District (HCSW), the Lake Champlain Lake George Regional Planning Board, NYSDOH, and so many others.

We also want to thank all the residents and visitors to Long Lake that took the restrictions imposed by the COVID-19 Pandemic seriously. The Long Lake businesses and the Town of Long Lake worked very diligently to ensure that Long Lake remained opened and that we could engage in outdoor activities in a safe manner.

Activities:

We did complete and distribute the *Long Lake Association Homeowners Guide to a Healthy Lake* at the Library, Town Offices, Post Office, and to many homeowners. This publication was designed and provided by the Lake Champlain Lake George Regional Planning Board, with funding assistance from NYSDEC through the Environmental Protection Fund. It provides great information on shoreline buffers and landscaping, aquatic invasive species, harmful algal blooms, water conservation, septic maintenance, stormwater, road salt, fertilizers, and contact information.

We did not sponsor the Paddling Olympics or the Annual Get-Together and Meeting, both of which we hope to resume for the summer 2021. We did participate in the Annual Loon Count, coordinated by Joan Collins and continued our support and partnership with the AWI Lake Steward Program to support the NYSDEC boat launch on Long Lake and at Forked Lake. In addition, the Boat Wash Station in Long Lake continued to be manned by the AWI, with funding support from the Town of Long Lake. The 2020 Lake Steward report will be posted on the LLA website when it is finalized by the AWI. It should be noted, that the Lake Stewards observed at least a 20% increase in use of the NYSDEC boat launches throughout the Adirondacks.

Water Testing:

Carma and Stephen Flannery continue to conduct water testing and participate in the Adirondack Lake Assessment Program (ALAP). The full report will be posted on the website upon receipt.

2020 is the fifth year that LLA has sponsored the lake quality testing through ALAP. ALAP's goal is to establish long term water quality trends on individual lakes and ponds throughout the Adirondacks. ALAP is a collaboration between Protect the Adirondacks, the AWI, and volunteers. Volunteers across the region gather samples of water during specified intervals and submit for analysis and interpretation by AWI. Trend reporting commences after five consecutive years of analysis and will be available for review in the spring of 2021.

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Summary:

- Long Lake Average transparency measured: 3.4 M in 2016, 3.2 in 2017, 3.7 M in 2018, and 3.4 M in 2019.
 - Transparency is a great indicator of lake condition and can be influenced by many things including dissolved organic matter, turbidity of lake, algal productivity, suspended sediment and dissolved chemicals.
- Phosphorus averaged: 4.4 micrograms/ L in 2016, 5.9 micrograms/L in 2017, 5.0 micrograms/L in 2018. And 8.3 micrograms/L in 2019.
 - Phosphorus is widely considered to be the most important contributor to reduced water quality in lakes. Phosphorus can enter watersheds from fertilizers, human waste as well as natural weathering.
- Sodium and chloride concentrations were: 3.3 mg/L and 3.0 mg/L respectively in 2016, 2.3mg/L and 4.1mg/L in 2017, 3.1mg/L and 3.8 mg/L in 2018, and 4.0 mg/L and 5.7 mg/L in 2019.
 - This indicates that Long Lake is influenced by road salt but the influence is low. 1-5 mg/L indicates road salt is present but low. Influence likely caused by 122 kilometers of road in the watershed.
- Calcium measured: 2.3 mg/L in 2016, 2.0 mg/L in 2017, 2.4mg/L in 2018, and 2.3mg/L in 2019.
 - Calcium is a naturally occurring buffering material but is generally in short supply in the Adirondacks.
- Lab pH averaged: 7.3 (2016), 6.8 (2017), 7.2 (2018), and 7.4 (2019).
 - pH of 6.5-7.5 is considered circumneutral: non-impacted Analysis of the historical data reveals that 25% of the lakes with long-term data have exhibited an increasing trend in pH (less acidic).
- Alkalinity measured: 7.3 mg/L in 2016, 6.4mg/L in 2017, 6.4 mg/L in 2018, and 6.4 mg/L in 2019.
 - 2-10 mg/L indicates moderate buffering ability) Alkalinity is a function of the amount of calcium carbonate in the water which is mainly derived from the watershed.
- Conductivity averaged: 25.5 uS/c (microsiemens/ centimeter) in 2016, 24.5 uS/c in 2017, 29.2 uS/c in 2018, *AWI* and 31.4 uS/c in 2019.
 - 10-25 uS/c is considered a clean, undeveloped lake in the Adirondacks. High conductivity reading may be attributed to road salts, faulty septic systems, or wetlands.
- Chlorophyll-a average: 3.6 microgram/L in 2017, 3.8 micrograms/L in 2018, and 3.7 micrograms/L in 2019.
 - There are several variables that can contribute to chlorophyll-a. Increases in chlorophyll are generally associated with increased algal production which is influenced by nutrient availability, water temperature, light, and grazing.
- Other measurements: (2017) HCSW aluminum (.054)mg/L, (2017)HCSW Nitrates .92 mg/L, (2018) Color 30.0, and (2019) Color 38.6

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Loon Count:

A total of 14 Common Loons were tallied including one chick. One Common Loon chick was found in 2012, 2016, and 2020 (every 4 years). Ten loons were found north of the bridge and 4 south of the bridge. There were 8 boating parties this year and at least 21 volunteers. Here is our updated historical table comparison since 2012:

Year	2012	2013	2014	2015	2016	2017	2018	2019	2020
# of Loons	12	12	13	11	11	17	8	13	14
# Boating Parties	8	6	10	10	12	10	8	9	8
# N. of Bridge	11	10	7	10	7	10	7	10	10
# S. of Bridge	1	2	6	1	4	7	1	3	4

Long Lake Management Plan:

We continue to work with the Lake Champlain Lake George Regional Planning Board to develop a Long Lake Management Plan. We expect to have a final version to share with you in early 2021.

Long Live Long Lake Fundraiser:

The Long Live Long Lake Fundraiser, to support ongoing Lake Management efforts, continues with limited solicitation during this summer season. Total donations through September for 2020 has been \$2900.00. In 2019 we received \$12,965.00 from generous donations and the efforts of the LLA Board Members.

Income and Expense Reports: (Fiscal year is January to January)

2020 Income and Expense Report:		
	\$	Detail
Opening Balance	27,503.54	
Income	2,911.40	
Expenses	256.00	Protect the Adirondacks – water quality testing: \$200.00 USPS - PO Box rental: 56.00
Ending Balance (10/5/2020)	30,158.94	
2019 Income and Expense Report:		
Opening Balance	16,801.31	
Income	12,965.00	Guest Bar Tender (Fundraiser): \$1350.00 Sale of Tee Shirts: 1480.00 Facebook Fundraiser (V. Sandiford): 2585.00 Long Live Long Lake Donations: 7750.00
Expenses	2,262.77	Adirondack Lake Alliance Membership: \$ 50.00 Paul Smiths College - ½ of boat wash shed: 967.50 Protect the Adirondacks - water quality testing: 200.00 Stacked Graphics -cost of Tee Shirts: 844.27 Adirondack Hotel - Annual Meeting: 145.00 USPS - PO Box rental: 56.00
Ending Balance	27,503.54	

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Please check out our website at www.longlakeassociation.org and our Facebook page <https://www.facebook.com/groups/445359968983334> for the latest updates.

Have a safe winter and see you in the spring.

Current Officers:

Barbara Taylor, Chairperson
Chuck Taylor, Vice Chairperson
Lorraine Pine, Secretary
Kathy Duffendack, Treasurer

Board of Directors:

Brian Castler	Debra and Ed Traynor
Carma and Steve Flannery	Amy Van Laak
Sue and Bill Fyfe	Tom Whitney
Mike Small	