



Raquette Lake Preservation Foundation

Annual Membership Meeting

July 24, 2021

Raquette Lake School



Awards

Persons of the year 2021

Jack and Jim Regan



New York State Federation of Lakes Association
Lake Steward Award 2021
Pat Deyle

A scenic landscape photograph of a calm lake. In the foreground, several large, smooth, grey-brown rocks are partially submerged in the water. The water is very still, reflecting the clear blue sky and the forested hills in the distance. The hills are covered in dense trees with some autumnal colors. The overall scene is peaceful and serene.

Secretaries Report

Raquette Lake Preservation Foundation

Secretary's Report, 2020 – 2021

Board of Directors: Gail Morehouse, President; Pat Deyle, Vice President; Bob Rosborough, Treasurer; Marion Goethals, Secretary; Lynne Ballou-Gentry, Dick Gentry, Ken Hawks, John Merrimam, Len Schantz, Kevin Norris

☐ August 2020

Annual meeting of the RLPF membership was held electronically last summer due to the pandemic. Ballots were returned by a quorum. John and Len were reelected to the Board and the Treasurer's Report and Secretary's Report accepted.

A public presentation of the development of the Lake Management Plan as required by the DEC grant was made on Aug. 25, electronically, by RLPF and Northeast Aquatic Research (NEAR) staff Hillary Kenyon and AJ Reyes.

☐ September 2020

Board of Directors meeting in person with social distancing at Gentry's barn; By-Law Amendment to Article IV concerning dues was approved by Board, the first step before submission to the membership. (Minutes approved)

❑ October 2020

Lake Management Plan DEC Grant quarterly reports (SEVEN as of July 2021) on assigned tasks assembled and submitted; the Newsletter was written, edited, produced and sent to members electronically Oct. 27; by email, Board approved up to \$1000 (printing and mailing) to broadly distribute Newsletter as a public relations vehicle.

❑ November 2020

By email, Board approved increasing the amount of our good neighbor contributions to various fire, rescue organizations;

By email on Nov. 21, RLPF Membership asked to vote on proposed By-Laws change regarding dues.

❑ December 2020

By email, Board approved proposal to employ a third party to review draft of DEC grant funded lake management plan, Dec. 19th;

By email, RLPF Members informed of their passage of the By-Laws amendment regarding Article IV Dues, Dec. 20;

By conference call, Board meeting and discussion with Northeast Aquatic Research (NEAR) re lake management plan grant progress and preliminary findings, Dec. 21 (Minutes approved);

By email, discussion and Board approval of 2021 budget, including outside tax preparation, Dec. 27th

DEC report submitted re RLPF's Volunteer Stewardship Agreement;

1 email discussion of new business re proposals to invest in technology to collect continuous data on lake level
r temperature with Adirondack Watershed Institute (AWI), Dec. 18 into January.

February 2021

R and Board in discussions on lake management plan drafting, maps submitted;

ident Gail's update to the Board re partnerships in the works with Adirondack Watershed Institute and Adirondack
ncil; accounting firm hired for taxes, new membership dues system working; NEAR progress.

April 2021

of new RLPF brochure submitted electronically to Board, all approved, with a gift for volunteer designers We
ett and family (in 2020, volunteer Nancy Barnett designed and currently updates our new website);

d conference call meeting with Northeast Aquatic Research (NEAR) to discuss their draft of the lake management
Dr.Dan Kelting of Paul Smith's also attended in his role as outside advisor to the Board.

25 electronic Board meeting: discussion of and planning for the lake management plan; continuing puzzles of
gated Leaf Milfoil (VLM) in the lake; upcoming Newsletter and brochure; and the possibility of current RLPF
nter tasks shifting to outside professionals. (Minutes approved)

Raquette Lake Preservation Foundation

Secretary's Report, 2020 – 2021

☐ May 2021

An in-person Board meeting was held on the 30th. Discussion focused on the upcoming VLM harvesting by Aqualogic from the boat-condominiums around the village to Brown's Tract; the necessity of removing the lake floor benthic mats per our permit; Adirondack Council's plan to hire a junior staffer to work on the Raquette Lake watershed with RLPF; the plans for the annual meeting of the membership; and plans for the public presentation of the final Lake Management Plan. (Minutes approved)

☐ June, July 2021

Email discussions reflecting opening up of summer commitments: Aqualogic's harvesting of VLM, boat stewards in the village, annual loon census, aquatic invasive species training. On July 6, eight members of the Board toured VLM areas of concern courtesy of Dick Gentry.

Respectfully submitted, Marion

RLPF Treasurer's Report

2021 Annual Meeting

July 24, 2021

		2020 Actual	YTD 2021 Actual	2021 Budget
Income	Dues and other	\$1,700	\$4,490	\$3,500
	Donations	\$62,062	\$16,511	\$4,000
	Dividends & Interest	0	\$2	\$75
	Grant Payment			
	AIS Fund			
	Raffle Ticket Sales	\$0	\$0	\$2,100
	Donations	\$1,100.00	\$10,500	\$2,000
	TOLL Funds	\$17,000	\$17,000	\$15,000
	Total Income	\$81,861.51	\$31,502.57	\$26,675

	2020	YTD 2021	2021
	Actual	Actual	Budget
Expenses			
Administrative Expense	\$32.87	\$0	\$250
Annual Meeting	\$73.35	\$0	\$125
Awards, POY, Recognition	\$0.00	\$200	\$250
Bank Expense	\$78	\$0	\$100
Community Outreach	\$1,085	\$1,382	\$1,335
*Grant Support	\$19,800	\$0	\$5,000
Insurance	\$180	\$180	\$185
Lake Testing	\$0	\$675	\$1,000
Lake Testing - Ham Co SWCD	\$0	\$0	\$150
***Marketing	\$577.60	\$811	\$5,000
Newsletter	\$619.48	\$416	\$200
PO Box	\$76	\$0	\$76
Travel/Fees	\$0	\$25	\$500
Tax Preparation	\$0	\$1,175	\$0
Website Hosting	\$32.87	\$33	\$0
Equipment Investment	\$0.00	\$0	\$5,000
AIS Fund			
Hand Harvesting Aqualogic	\$17,000	\$9,000	\$16,500
Kayak	\$0.00	\$0	\$650
Raffle Tickets	\$0.00	\$0	\$150
Frontier, Steward Wi-Fi	\$334.33	\$0	\$0
Shed Maintenance	0	\$0	\$250
Total Expenses	\$40,326.38	\$13,481	\$36,721

Community Outreach

	2020 Actual	YTD 2021 Actual	2021
Adk Ctr Arts	\$100	\$100	\$100
ANCA	\$35	\$35	\$35
ADK Action	\$100	\$100	\$100
Central Adk Association	\$50	\$50	\$50
NYS FOLA	\$175	\$222	\$175
Adirondack Lake Association	\$175	\$0	\$75
RLVFD	\$150	\$150	\$150
St. Williams on Long Point	\$100	\$100	\$100
RL Library	\$50	\$50	\$50
TOLL Community Pride Day	\$100	\$100	\$100
TOLL Fire	\$75	\$75	\$75
TOLL Rescue	\$75	\$150	\$75
NFCT	\$75	\$75	\$75
RL Rescue	\$0	\$75	\$75
Adirondack Council	\$0	\$100	\$100
Total Community Outreach	\$1,085	\$1,382	\$1,335

RLPF Grant Budget / Expenses

\$4,000.00	NEAR , Past and current assessment of condition of RL
\$1,455.10	Upstate Freshwater Institute – Lab testing
\$1,000.00	NEAR Public Presentation
<u>\$8,360.00</u>	NEAR Aquatic Plant Survey
\$14,815.10	Total

Matching Funds

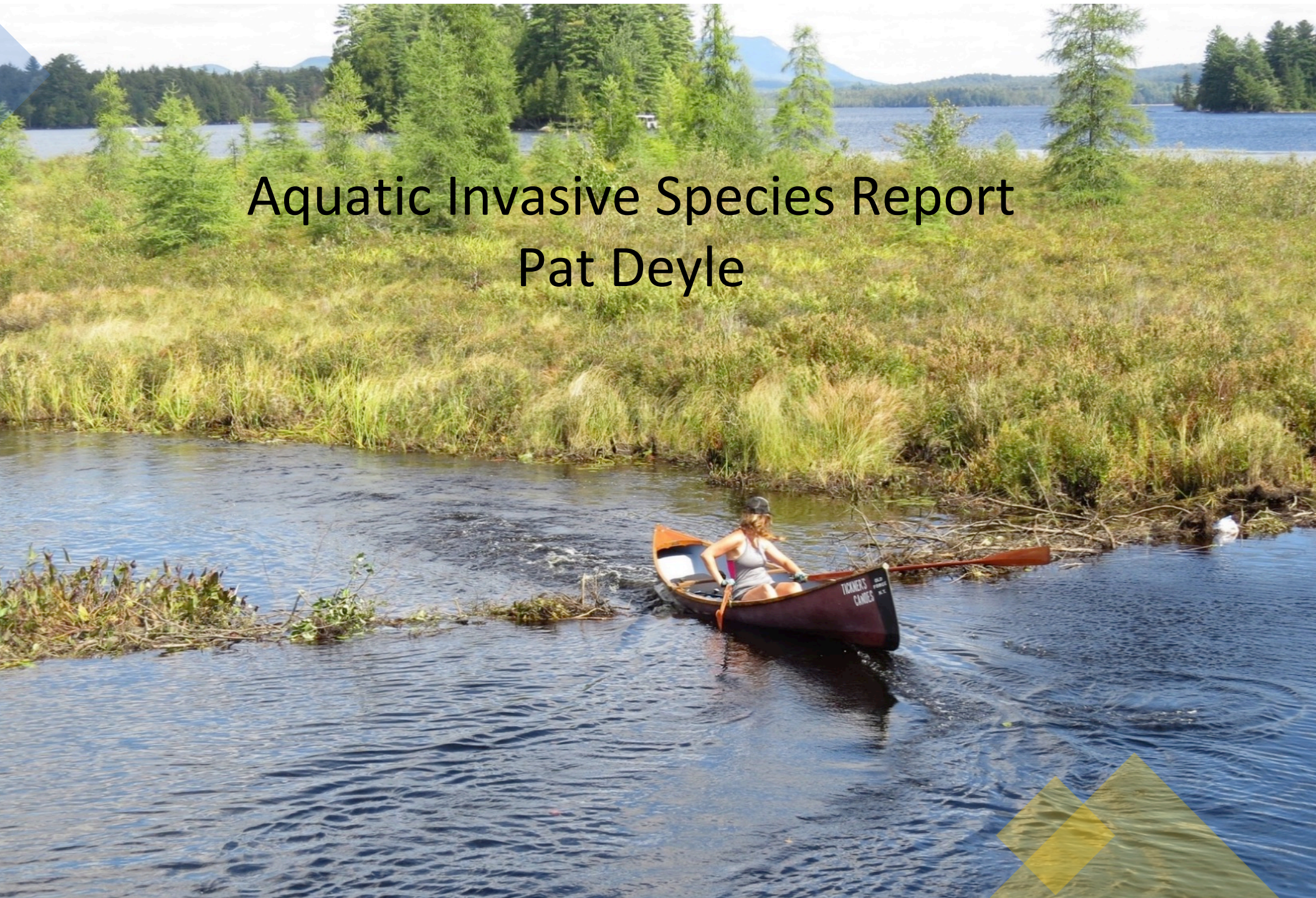
\$2,000.00	TOLL
\$3,840.00	RLPF funds for extra surveying days
\$156.74	RLPF for aluminum sign required by grant
<u>\$160.00</u>	Printing of the LMP informational brochure
\$6,156.74	Total

Yet to be reimbursed but spent

\$2,600.00	NEAR Preliminary aquatic plant data analysis & GIS mapping
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Aquatic Invasive Species Report

Pat Deyle

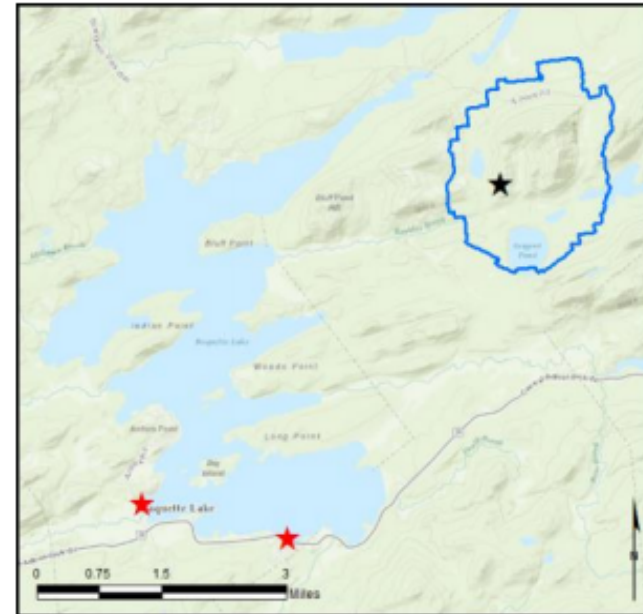


Raquette Lake

AIS intercepted: 8
Boats inspected: 1,728
Number of visitors: 3,484
Boats failing inspection: 2.6%

Dates of operation: 23 May – 7 September
Total number of days covered: 79
Weekly coverage: 5 days
Visitors showing spread prevention awareness: 83%
Number of previously visited waterways: 76

AIS present in waterbody: variable-leaf milfoil
Stewardship history: 2008, 2011 - present
Partnership: Raquette Lake Preservation Foundation,
 Raquette Lake Supply Co.



Watercraft	Boat Type										total # boats observed	total # boats inspected
	Barge	Canoe	Dock	Kayak	Motor	PWC	Row	Sail	SUP	Wind		
# of boats observed	1	191	1	533	936	108	3	4	5	0	1782	1728
percentage of total boats	0%	11%	0%	30%	53%	6%	0%	0%	0%	0%	100%	97%

Boats observed at launch, including those not inspected. PWC=personal watercraft, SUP=stand-up paddleboard, Wind=windsurfer.

total # visitors	organisms found			total organisms	# boats dirty	# boats w/AIS	# of inspections	% of inspected boats dirty	% of inspected boats w/AIS
	entering	leaving	roadside						
3484	10	45	--	55	45	8	1728	2.6%	0.5%

Boats dirty = watercraft with any organic material, invasive, non-invasive or unknown.

Visitor Responses	AIS spread prevention awareness											# groups asked
	yes	Inspect	Wash	Drain	Bait	LW	Dry	Decon	same lake	first/frozen	didn't ask	
# of groups	1149	400	359	441	3	26	266	35	171	158	37	1381
percentage of total groups asked	83%	29%	26%	32%	0%	2%	19%	3%	12%	11%	NA	

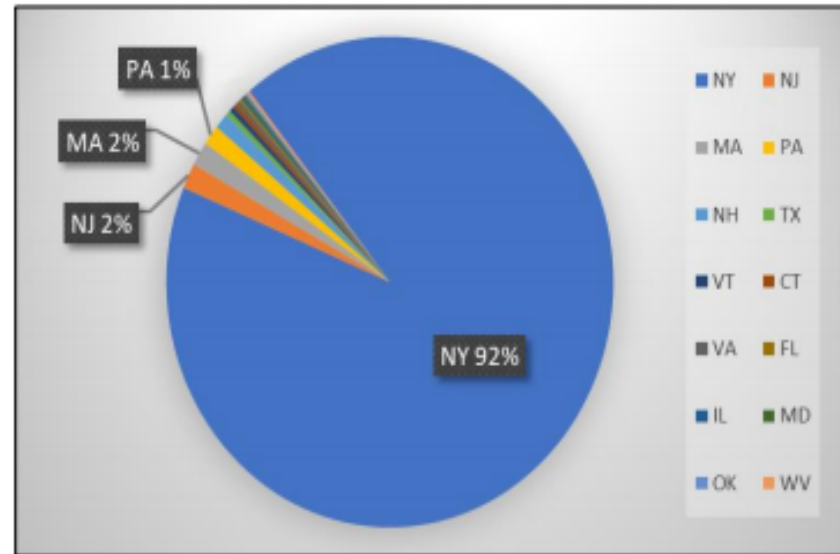
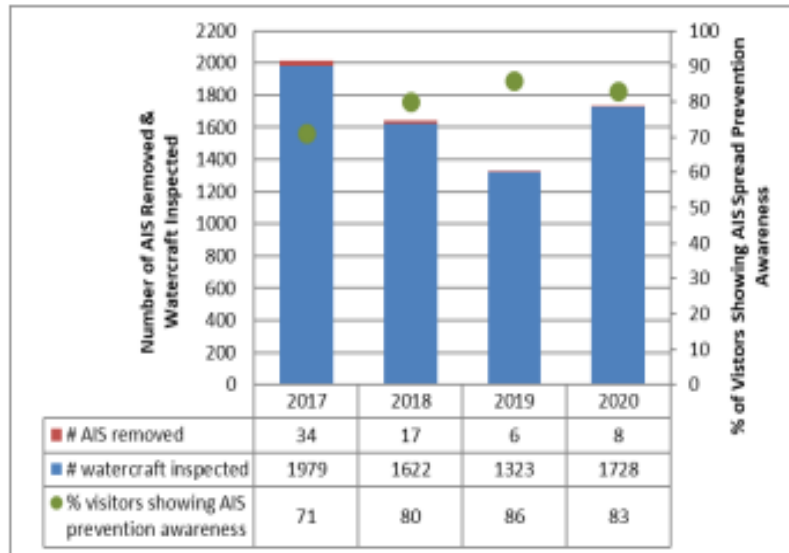
Yes = showed AIS spread prevention awareness; Drain = drained bilge; Bait = emptied bait bucket/disposed of bait; LW = drained livewell; Dry = dried boat; Decon = visited decon station; Same Lake = boat only goes in this lake; First/Frozen = first launch of the season or frozen boat.

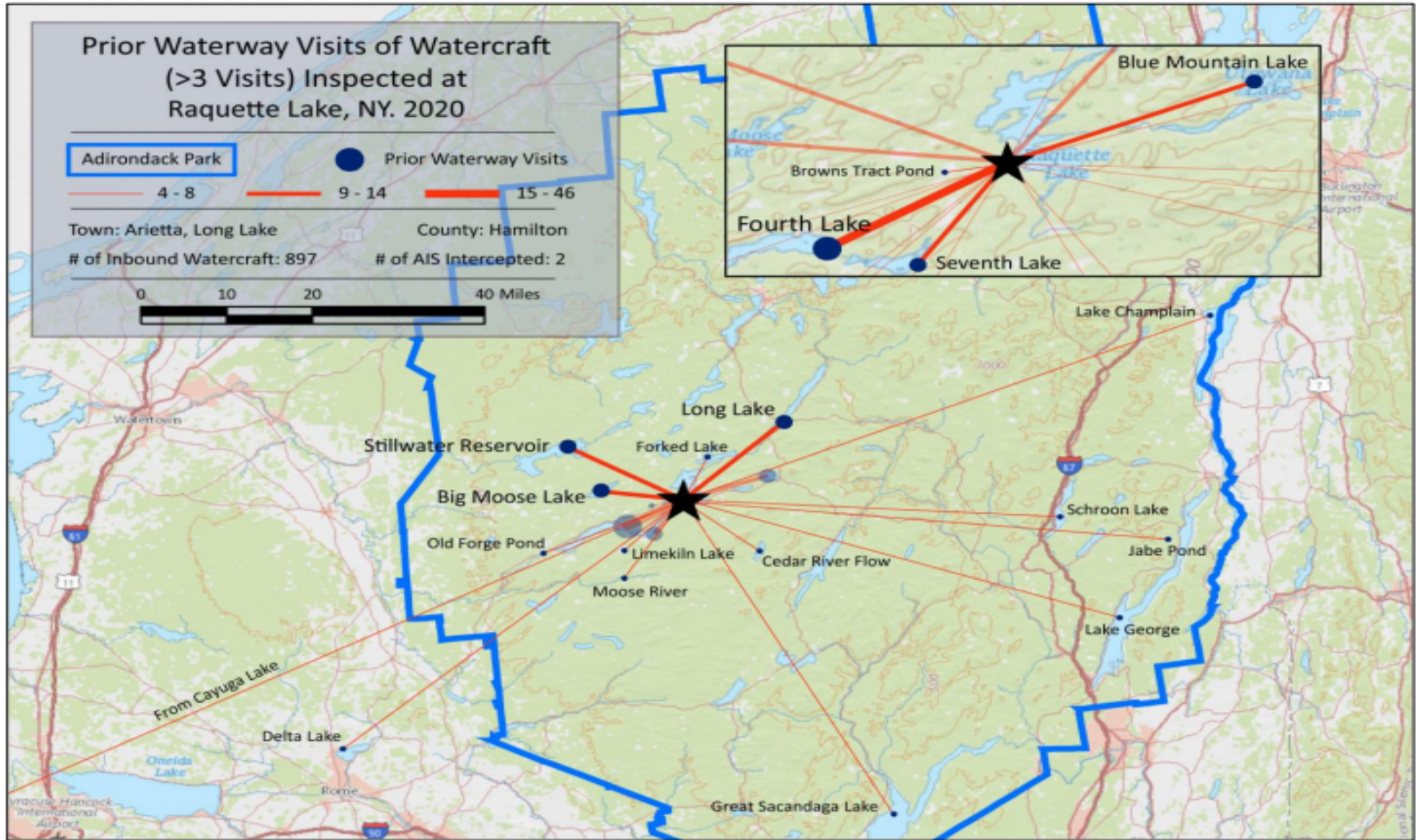
Organisms Removed	Organism Type									total # AIS	% of inspected boats w/AIS
	Non-invasive	BN*	BRS*	CLP*	EWM*	VLM*	SWF*	WC*	ZM*		
# of organisms	47	0	0	0	2	6	0	0	0	8	0.5%
percentage of total orgs	85%	0%	0%	0%	4%	11%	0%	0%	0%		

Non-invasive = native aquatic or terrestrial material; BN = brittle naiad; BRS = bloody red shrimp; CLP = curly-leaf pondweed; EWM = Eurasian watermilfoil; VLM = variable-leaf milfoil; SWF = spiny waterflea; WC= water chestnut; ZM = zebra mussel; */AIS = aquatic invasive species.

Aquatic Invasive Species Intercepted by Stewards	# found on boats launching	Previous Waterway	# found on boats retrieving	Previous Waterway
Eurasian watermilfoil	1	Honeoye Lake (1)	1	Raquette Lake (1) - previously in Hyde Lake, Jefferson County
variable-leaf milfoil	1	Raquette Lake (1)	5	Raquette Lake (5)
Totals	2		6	

**State of Motorized Boat Registration
(n=1,066)**



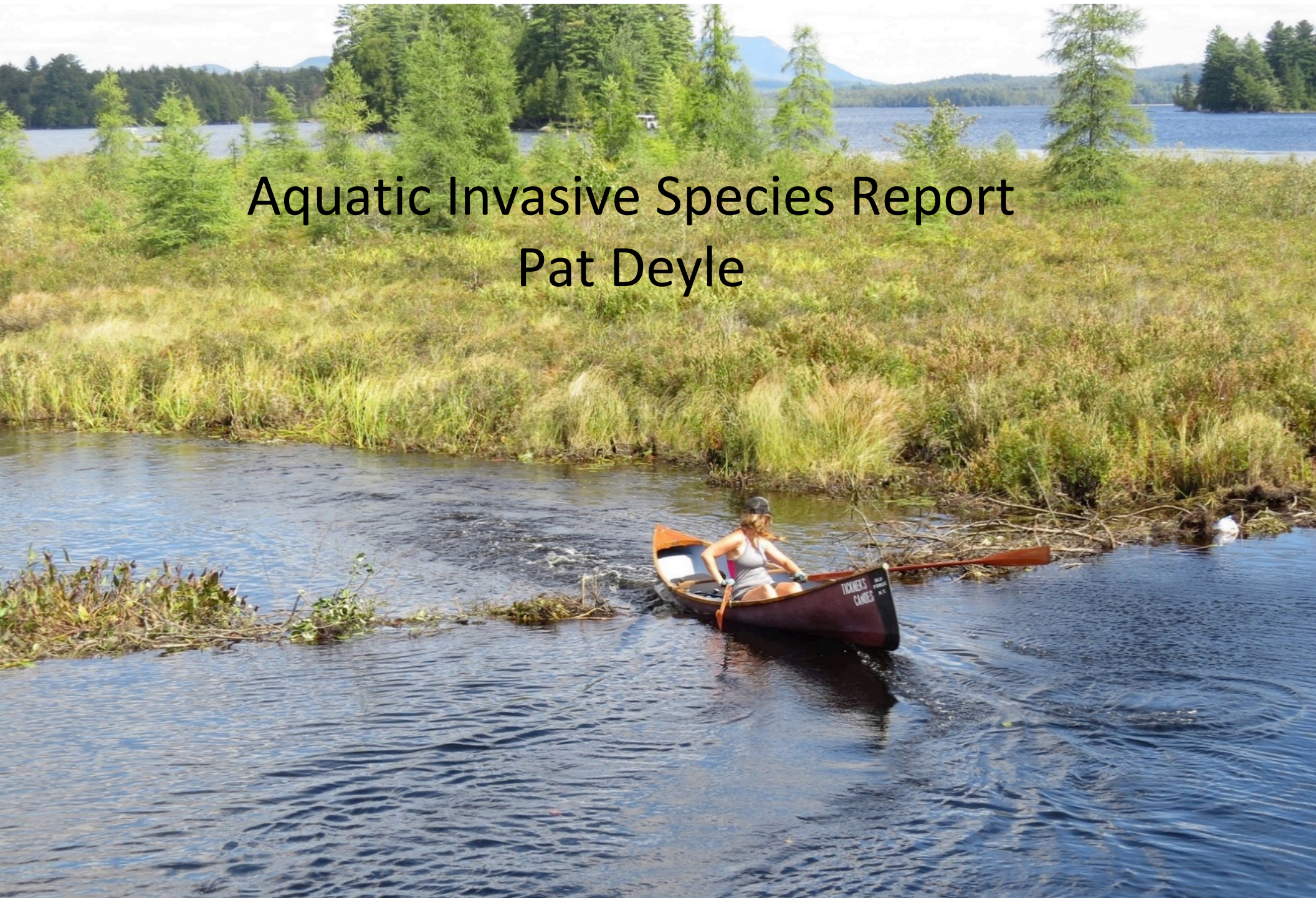


Downloaded 22 July 2021

Location	Boats inspected	Visitors	Boats w/ organisms	Boats w/AIS	Variable-leaf milfoil	Attached debris	Bladder wort	Eelgrass	po
IceLakeVillageLaunch	378	774	16	2	2	8	4	2	
Variable-leaf catches were on retrieving boats.									

Aquatic Invasive Species Report

Pat Deyle





Water Quality and Testing Reports Ken Hawks Dick Gentry

Adirondack Lake Assessment Program

have been participating in this water quality testing program for 18 years so we have lots of historical data that can help detect long term trends. Full data is available at adklakes.org. The 2020 sampling results show decreasing Transparency and Total Phosphorus and increasing pH and Alkalinity. We will continue to take samples for 2021.

Raquette Lake

Trophic State Oligotrophic	Acidity Circumneutral	Acid Neutralizing Capacity Moderate	Road Salt Influence Present- low
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Water quality values for Raquette Lake during the 2020 sampling season. Historical trend analysis performed in 2015 (updated every five years). Trend analysis was not performed on calcium data. BDL=below detection limit.

Water Quality Indicator	6/14/2020	7/18/2020	8/15/2020	Average	Trend
Transparency (m)	4.2	4.1	4.3	4.2	Decreasing
Total Phosphorus (µg/L)	5.6	4.5	6.0	5.4	Decreasing
Chlorophyll- <i>a</i> (µg/L)	3.3	3.6	2.0	3.0	No Trend
Laboratory pH	6.6	6.8	6.9	6.7	Increasing
Sp. Conductance (µS/cm)	36.6	37.1	37.5	37.1	No Trend
Color (Pt-Co)	47.2	40.7	34.3	40.7	No Trend
Alkalinity (mg/L)			7.0	7.0	Increasing
Chloride (mg/L)			5.8	5.8	No Trend
Calcium (mg/L)			2.0	2.0	Not Analyzed
Sodium (mg/L)			3.6	3.6	No Trend

Water Quality Monitoring Change for 2022

In 2022 we will be changing from the CSLAP water testing program to the Hamilton County Water Testing program, part of the Hamilton County Soil and Water Conservation District

With CSLAP we are one of over 200 lakes being measured and their testing requirements are the same for all lakes, small or large.

We have to wait over six months for data after the season is over.

HC program includes Vertical profile testing (PH, DO, chl a, conductivity and Temp.)

HC tests for dissolved organic carbon vs just color with CSLAP.



Both programs use NYS certified laboratories.

We would pay an additional cost to HC to do the deep water sample, but the cost will be less than the CSLAP program.

It will be much easier and timely for us to interact and get data from HC than CSLAP.

We would no longer be required to take samples ourselves, but we would provide boat service to HC for them to collect samples.

The water quality data would still be acceptable to NYS and the DEC for any grant applications.



- **Lake Data Logger**
- **Adirondack Watershed Institute – Paul Smith's College**

We will be installing a lake monitoring system in the village area to help us better understand the water quality factors we measure on a monthly basis.

The system will measure the following:

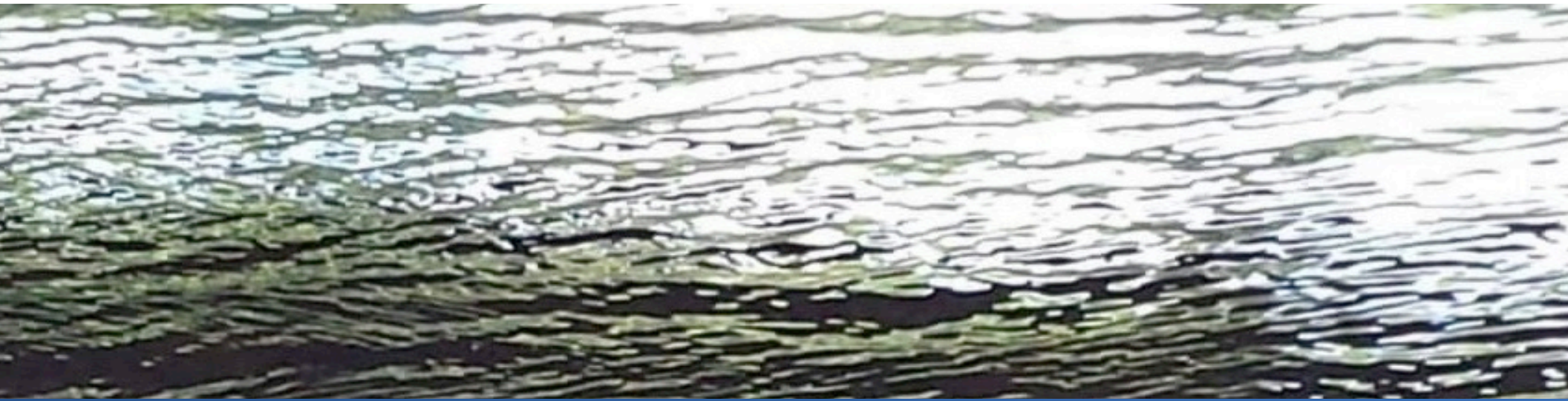
Lake Level

Water Temperature

Air Temperature

Humidity

Rainfall



System is solar powered. Data will be uploaded every 15 minutes via cellular signal to Paul Smith's College. You can access the data at any time and even post a link on our website for people to see.

This information will help us understand how and why we see changes in the parameters we measure on a daily basis.

Example: we may see a difference in water clarity month to month. This data will allow us to look back at weather events that may affect the clarity such as heavy rainstorms, low rainfall, periods of high or low water temperature, etc. This will help us better understand what exactly is affecting our water quality.

The system will be installed sometime this summer.

Thank you to Jim Dillon and Dean Pohl for supporting RLPF and allowing us to install the system in their pond at the village.

RLPF Lake Management Plan

Most objectives met

Assessment of Water Quality

- **Excellent, low in plant nutrients, abundance of oxygen, alkalinity is increased, not affected by road salt**

Comprehensive survey of Lake residents to understand public concerns and attitudes

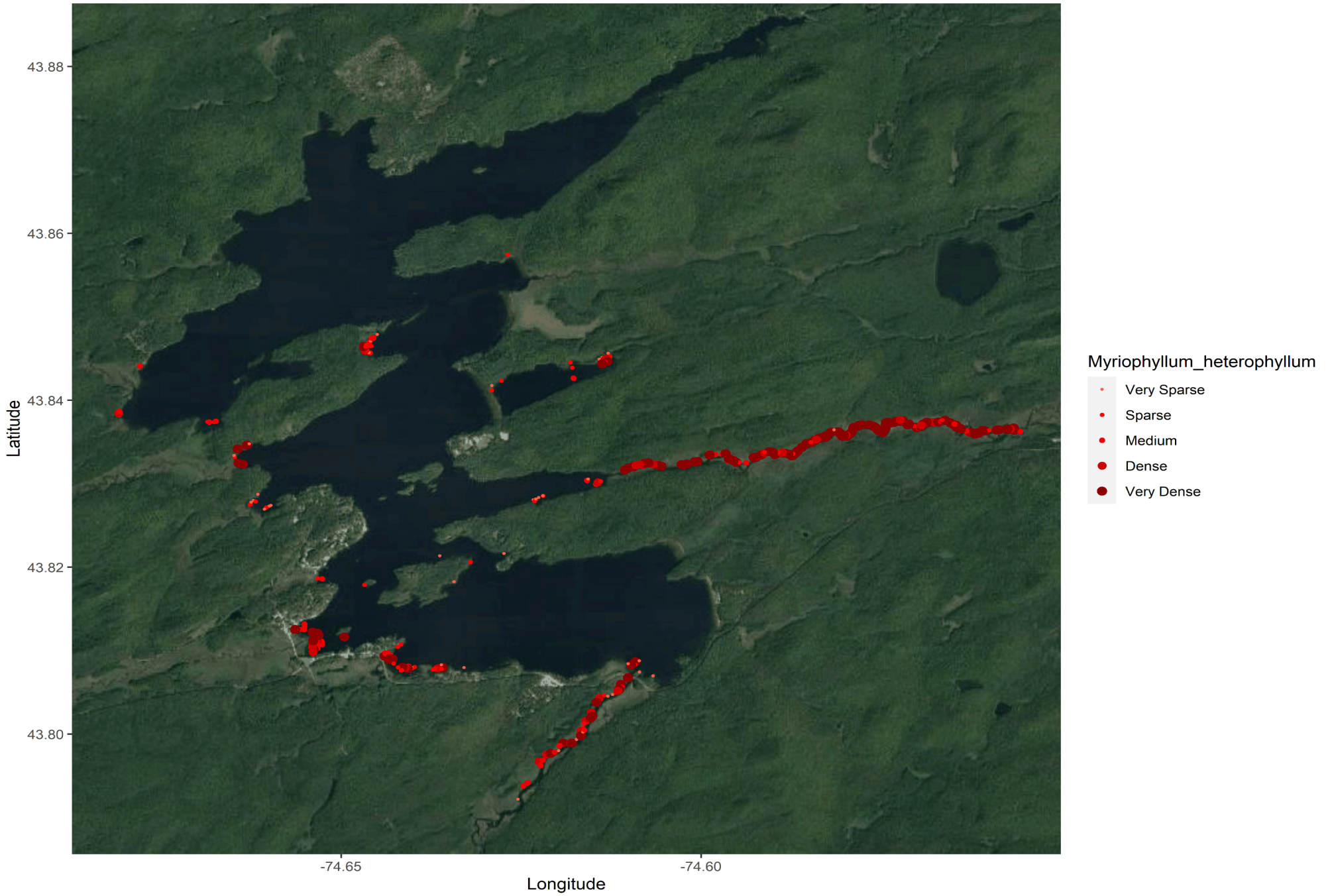
Comprehensive Aquatic Plant Life survey

- **39 different species, excellent biodiversity, lots of VLM**

First draft of Lake Management Plan



Raquette Lake July 2020 *Myriophyllum_heterophyllum* (Variable milfoil)
Northeast Aquatic Research, LLC



Appropriate AIS Control Practices

- ✓ Diver Removal
- ✓ Benthic Barriers
- ✓ Aquatic Herbicides

VLM Long term Management

- ✓ Long term management zones/containment
 - Both inlets – protect high species diversity
- ✓ Village
- ✓ Eradication Zones
- ✓ Prevention Zones



Adirondack Council
Clean Water Advocate

- Develop a common understanding of the threats to water quality in the Raquette Lake area and develop watershed-scale recommendations.
- Partner with the Raquette Lake Preservation Foundation (RLPF) to protect and promote the watershed of Raquette Lake as RLPF continues to develop and implement strategies to prevent the introduction of aquatic invasive species and mitigate other threats, including but not limited to recommendations outlined in their draft Lake Management Plan.
- Identify sustainable funding solutions to advance the Raquette Lake Preservation Foundation's lake management and aquatic invasive species prevention and control work; partner with the organization as appropriate to secure grants to bring plan recommendations to fruition.
- Lead the Council's clean water work in the Raquette Lake watershed; pilot strategies that can be scalable and replicable in other areas of the Park.



July 17, 2021

adult loons
chicks

THANK YOU VOLUNTEERS!



A scenic landscape photograph of a calm lake. In the foreground, several large, smooth, greyish-brown rocks are partially submerged in the water. The water is very still, reflecting the clear blue sky and the distant hills. In the background, there are rolling hills covered in dense, dark green forest. The sky is a uniform, clear blue. The overall mood is peaceful and serene.

Broadband Report Ken Hawks

Elections
Gentry – Director
n Norris – Director
Morehouse – President
Deyle – Vice President
ion Goethals – Secretary
Rosborough - Treasurer

