

Sauk River Chain of Lakes Association
Board Minutes
February 15th, 2022 6:30 – 8:30 p.m.
Zoom Meeting

Call to Order – John Rocky, President

Present: John Rocky, Matt Noska, Sue Antolak, Brad Matuska, Aaron Schwartz, Karla Smetana, Troy Atkinson, Charlie Montreuil, Steve Weeres, Admin: Ann Warling, Gambling Manager: Keely Frakes-Rau

Guest Speaker: Allison Lightfoot, Sauk River Watershed District

Absent: Dave Hinson, Matt Pelant

Review of past Minutes – John Rocky

- January Board Minutes Approved via Email – Ann Warling

Gambling Manager Report - Karla Smetana/Keely Frakes-Rau

- Reviewed the Gambling Monthly Tax Return – *see attached*
- *See attached* – LG1004 Monthly Gambling Report to members
- The next projected donation to Sauk River Chain of Lakes Association (SRCLA) will be in March.
- *Brad Matuska made a motion to approve the monthly gambling report and proposed gambling expenses. – Seconded by Aaron Schwartz. Approved.*
- Struggling to secure adequate volunteers to operate Bar Bingo and Meat Raffle.
- Karla Smetana will be finishing out her board term until June but will not be seeking a board position next term.
- Matt Noska, John Rocky, and Karla Smetana will meet to explore the possibility of creating a paid Volunteer Gambling Coordinator position and will report back to the Board on their recommendations for approval.

Water Quality Committee Report - Aaron Schwartz

- Allison Lightfoot, Sauk River Watershed District (SRWD), presented the 2021 Sauk River Chain of Lakes Monitoring Report – *see attached*
- Aaron Schwartz will explore expanding SRCLA monitoring efforts to include *Inlet Monitoring* and *Dissolved Oxygen Stratification (Bottom Sampling) Monitoring*.
- Aaron Schwartz will work with the SRWD to finalize an overall lake monitoring contract for 2022.

Financial Report – Charlie Montreuil

- The November Financials reclassified \$8,207.49 as a donation instead of dues. The December Financials reclassified \$2,219 as a grant instead of dues.
- *John Rocky made a motion to approve the reclassified November and December financial reports. – Seconded by Aaron Schwartz. Approved.*
- The January financial report showed \$143,634.44. *Troy Atkinson made a motion to approve the January Profit & Loss, Balance Sheet, and Check Register. – Seconded Steve Weeres. Approved.*
- Charlie Montreuil presented a draft of the 2022 Budget and Monthly Tracking Spreadsheet. Work will continue on developing a detailed budget.
- 2021 Financials will be taken to Dan Schleper, Certified Public Accountant (CPA) to have taxes prepared.

Administration Report – John Rocky

- Matt Noska and Charlie Montreuil will meet with Dan Schleper, CPA to determine a schedule for auditing the SRCLA financial records and to determine if an internal or external audit committee would be best.
- John Rocky reached out to Matt Pelant. Matt has decided to resign from the SRCLA Board due to increased work load and travel.
- *Brad Matuska made a motion to have John Rocky connect with Gene Krebs, Stearns County Long Lake Association (SCLLA), to ask if he is interested in filling the remaining one-year five-month term being vacated by Matt Pelant. – Seconded by Matt Noska. Approved.*

Aquatic Invasive Species (AIS) Committee Report – Brad Matuska/Dave Hinson

- The AIS Subcommittee met and proposed the following recommendation for 2022 AIS activities:
 - Hybrid Water Milfoil (HWM) Survey - \$11,400 – Late season point-intercept survey to discover how far HWM has spread in other lakes (ie Becker, Cedar Island, etc)

- Curly Leaf Pondweed (CLP) Chemical Treatment - \$70,000 (Needs Department of Natural Resources (DNR) approval) – *See attached Removed 150-foot Shoreline Buffer Map*. About 100 total acres.
- CLP Mechanical Treatment - \$20,000 (Need DNR approval). Same general areas as last year but starting on the west end of the Chain and working toward the east end.
- CLP Point-Intercept Survey - \$8,658.96. Early season point-intercept survey of entire Chain to discover areas of CLP that have not been identified yet.
- NOTE: The testing, treating, and surveying of HWM is not included in the proposed recommendations, because while we are doing the activities but they will be covered by the Stearns County AIS Grant.
- Proposed total 2022 AIS Budget is \$110,058.96
- *Brad Matuska made a motion to approve the Proposed 2022 AIS Budget, Treatment, and Surveying Activities. Seconded by Troy Atkinson. Approved.*
- Aaron Schwartz suggested that we explore the possible reclassification of Becker Lake from an environmental lake so chemical weed treatment would be possible. This may be further explored if hybrid water milfoil is discovered within this lake.
- *Brad Matuska made a motion to join the Stearns County Coalition of Lake Associations (COLA) and assist with writing a grant for assessment and treatment of Flowering Rush upstream near Melrose. – Seconded by Matt Noska. Approved.*
- Brad Matuska has assisted SCLLA in the Department of Natural Resources Grant Process.
- *Brad Matuska made a motion to donate \$2,500 to Minnesota Aquatic Invasive Species Research Center. – Seconded by John Rocky. Approved.*

Fisheries Committee Report - Matt Noska

- Crappie Limit reduction is being explored by Joe Stewig, DNR, for Fall 2024 implementation.
- The State of Minnesota is working toward reducing the Walleye limit from six to four statewide.
- Joe Stewig, DNR, is opposed to walleye stocking in the Chain due to an 88 percent natural reproduction rate.
- Matt Noska will continue discussing these topics with Joe Stewig.

I-LIDS Report – Steve Weeres

- Steve Weeres presented the 2021 I-LIDS Summary Data – *see attached report*.
- The Board has given Steve Weeres continue exploring costs to improve the educational and watercraft cleaning opportunities (CD3 Stations/Stick it to Weeds) such as at the Chain’s boat launches and report back with a proposal for the March Board meeting.

Land Use Committee Report – Troy Atkinson

- No Report

Marketing/Public Relations Committee Report – Susan Antolak

- The SRCLA brochure is in process at Minuteman Press and a draft will be available for Board approval in March.
- 40th Anniversary Picnic/Spring Membership Meeting and location options:
 - Cold Spring Lions Park June 11th
 - Richmond Lions Park July 23rd
 - John Rocky will be contacting Shady’s Long Shot for June 11th to host our picnic/meeting.
 - A deposit is needed this week at whichever location chosen.
- Review of the Online Store items from Promotional Resources was emailed to Board members for comment and approval.
- Review Promotional Resources’ items for Special 40th Anniversary Give Away and are in need of Board approval.
- SRCLA will be a \$750 Rockin’ River Lakes Days sponsor. Continued exploration on the Board’s involvement in the Grand Paraded and Boat Parade in celebration of the SRCLA 40th Anniversary.
- Exploring Cold Spring Hometown Pride Days Sponsorship and Parade.
- Susan Antolak continues to work on the 2022 Marketing Budget Proposal.
- Karla Smetana will gather information on possible involvement in the Rocori Community Showcase event on April 9th. Karla offered to help prepare the SRCLA presence at the event. Steve Weeres and John Rocky offered to work the event. Board members will vote via email once Karla has gathered event information.

Old Business

- 40th Anniversary/2022 Membership Decals designs are being worked on by Shawn at Fast Graphics and will be ready for approval at the March 15th Board Meeting. – Matt Noska

New Business

- University of Minnesota Wave Research Report – Tabled until the March 15th Board Meeting

Adjourn

- Aaron Schwartz made a motion to adjourn the February 15th, 2022, SRCLA Board Meeting. – Seconded by Brad Matuska. Approved.

For the Good of the Association – Meeting Schedule

- Tuesday, March 15th at 6:30 pm – Virtual (Zoom) Meeting
- Tuesday, April 19th at 6:30 pm – Virtual (Zoom) Meeting
- Tuesday, May 17th at 6:30 pm – Virtual (Zoom) Meeting

MINNESOTA - REVENUE

G1

Lawful Gambling Monthly Tax Return

Print or Type	Organization name Chain of Lakes Richmond Sauk River	Federal ID number (FEIN) 00000	Minnesota tax ID number 00000	License number 01870
	Address PO Box 369	<input type="checkbox"/> Check if organization changed	Email address	Month/year reported 1/2022
	City Richmond	State MN	Zip code 56368	Number of Sites 1
	Number of pull-tab (paper and electronic), tipboard, sports themed tipboard and paddleticket games reported on schedule B2's for the month : g		Check all that apply: <input type="checkbox"/> Amended return <input type="checkbox"/> Filing under extension (see Instructions) <input type="checkbox"/> No gaming activity this month <input type="checkbox"/> Final Return (see Instructions)	
	This return includes (check all that apply): <input type="checkbox"/> Schedule B2 <input type="checkbox"/> Schedule NRL <input type="checkbox"/> Schedule ER <input type="checkbox"/> Form G7430 (February only)			

			A	B	C
			Gross receipts	Prizes paid	Net receipts
1	Non-linked bingo.....	1	4830.00	4196.00	634.00
2	Raffles (if tax-exempt raffles were conducted,complete Schedule ER).....	2	0.00	0.00	0.00
3	Paddle tickets..... 2 games.....	3	1800.00	1140.00	660.00
4	Add lines 1 through 3.....	4	6630.00	5336.00	1294.00
5	Interest and other income (including advertising or sponsorship income; see instructions).....	5	0.00		0.00
6	Electronic linked bingo.....	6	1628.75	1384.43	244.32
7	Tipboard..... 0 games.....	7	0.00	0.00	0.00
8	Paper pull-tabs..... 3 games.....	8	7727.00	7350.00	377.00
9	Electronic pull-tabs..... 0 games.....	9	75892.50	65494.80	10397.70
10	Sports-themed tipboards..... 4 games.....	10	1600.00	1350.00	250.00
11	Add lines 4 through 10. Line 11C is your gross profits for the month.....	11	93478.25	80915.23	12563.02

12	Net receipts tax (multiply line 4C by 8.5% [0.085]. If negative, enter zero).....	12			109.99
13	Combined net receipts tax (from Worksheet E, line 11).....	13			1983.00
14	Total tax before credits (add lines 12 and 13).....	14			2092.99
15	Net receipts tax credit used (from Schedule NRL, column E).....	15			0.00
16	Exempt raffle tax credit (from Schedule ER, line 4).....	16			0.00
17	Total nonrefundable credit (add lines 15 and 16).....	17			0.00
18	Subtract line 17 from line 14. If negative, enter zero.....	18			2092.99
19	Combined net receipts tax credit (from Worksheet E, line 11; if negative)	19			0.00
20	Monthly regulatory fee (multiply line 11a by 0.125% (.00125).....	20			116.85
21	TOTAL TAX DUE OR REFUND (add lines 18, 19 and 20).....	21			2209.84

Expenditures
/Expenses

22	Lawful purpose expenditures (from LG100C) less MN DOR gaming taxes paid.....	22	0.00
23	Total lawful purpose expenditures (add lines 21 and 22).....	23	2209.84
24	Allowable expenses (total of all Schedule A's).....	24	4175.37

Start Bank

25 a	Starting cash banks per books (total of all Schedule A's).....	25 a	9500.00
b	Unreimbursed starting cash banks (total of all Schedule A's).....	25 b	671.00
	End-of-month cash balance in starting banks (subtract line 24b from 24a).....	25	8829.00

Organization Net Profit Less Combined Receipt Tax and Regulatory Fees Paid in the Month 6100.65

I declare that all information on this summary and tax return is true, correct and complete.

Sign Here

Chief executive officer (print)		Chief executive officer signature	Date	Daytime Phone
Gambling manager		Gambling manager signature	Date	Daytime Phone
Preparer (print)	Name of firm B-Smart	Preparer signature	Date	Daytime Phone (555) 555-5555

Mail Form G1, schedules and any required attachments to:
Minnesota Revenue, Mail Station 3350, St. Paul, MN 55146-3350

Lawful Gambling Receipts and Expenses by Site

Organization name Chain of Lakes Richmond Sauk River	License number 01870	Site permit number 009
Location name Rich Spring Golf	Month/year reported 1/2022	

Gross Profits		A	B	C
		Gross receipts	Prizes paid	Net receipts
1	Paper Pull-tabs..... 3 games.....	1 7727.00	7350.00	377.00
2	Electronic Pull-tabs..... 0 games.....	2 75892.50	65494.80	10397.70
3	Paper Bingo.....	3 4830.00	4196.00	634.00
4	Electronic Linked Bingo.....	4 1628.75	1384.43	244.32
5	(PT) Paddletickets (using miniwheel or similar)..... 2 games.....	5 1800.00	1140.00	660.00
6	(PW) Paddletickets (using paddlewheel table)..... 0 games.....	6 0.00	0.00	0.00
7	Raffles.....	7 0.00	0.00	0.00
8	Tipboards..... 0 games.....	8 0.00	0.00	0.00
9	Sports-themed tipboards..... 4 games.....	9 1600.00	1350.00	250.00
10	Interest and other income	10 0.00		0.00
11	Add lines 1 through 10.....	11 93478.25	80915.23	12563.02

Allowable Expenses				
12	Cost of gambling products paid during the month (include state and local sales tax and freight charges).....		12	614.37
13	Compensation and payroll taxes.....		13	0.00
14	Penalty and interest paid on taxes.....		14	0.00
15	Accounting services.....		15	750.00
16	Costs for a new or renewed gambling manager's bond.....		16	100.00
17	Local government investigation fees.....		17	0.00
18	Rent paid for conducting lawful gambling.....		18	1335.77
19	Electronic Pulltab Game Fees.....		19	2901.46
20	Electronic Linked Bingo Provider Fees.....		20	25.21
21	Other miscellaneous allowable expenses not listed above.....		21	-1551.44
22	Cash long or short (if cash long, put parentheses around amount).....		22	0.00
23	Reimbursement for excess cash shortages (this is a negative amount).....		23	0.00
24	Total allowable expenses (add lines 12 through 23).....		24	4175.37

Cash Banks				
25	Starting cash banks per books (site records).....		25	9500.00
26	Unreimbursed starting cash banks.....		26	671.00
27	Total starting cash banks (subtract line 26 from line 25).....		27	8829.00

Ending Inventory				
28	Dollar value of ending inventory on the last day of the month for this site. Do not include any sales tax, freight charges or the 1.7 percent tax.....		28	1355.49

Net Profit				
29	Net profit less state taxes assessed on lawful gambling (11C - 24 - A08: Monthly State Taxes and Fees Paid... **).....		29	6100.65

** Include taxes paid of 2287.00 in the current month from previous month activity.

Recommended Tax Allocation from Current Month Activity to Apply in Following Month

Combined Receipts Tax Allocation =	100.00 % of :	1983.00 =	1983.00
Net Receipts Tax Allocation =	8.5 % of :	1294.00 =	109.99
Regulatory Fee Allocation =	.125 % of :	93478.25 =	116.85
			<u>2209.84</u>

Schedule B2 – Lawful Gambling Report of Barcoded Games

Use this schedule to report pulltab, tipboard and paddleticket games that have been removed from play during the month. If you're reporting destroyed, fund-loss, defective or missing games, read instructions before completing.

Federal ID number 00000	Minnesota tax ID 00000	License number 01870
Site permit number 009	Month/year reported 1/2022	Page 1 of 2

Name of gambling site
Rich Spring Golf

Type of operation: Booth Bar-op Machine dispenser
 Type of game (check one): Paper Pulltabs Electronic Pulltabs
 Sports Tipboards Progressive tipboards Paddletickets Tipboards
 Paddletickets (PW) Progressive pulltabs

Game status (check one):
 Played Destroyed with Revenue approval Reported as fund losses Defective Missing
 Fund loss game destroyed by Revenue

	A Mfg ID	B Part Number	C Serial #	D Date in play	E Ideal gross receipts	F Ideal prizes	G Value of unsold tickets	H Gross receipts (E minus G)	I Value of prizes paid	J Net Receipts (H minus I)	K Cash in hands	L Cash long / (short) (K minus J)	M Date game removed
1	AG	PARV175	7534168	31-Dec-21	3168.00	2350.00	1461.00	1707.00	1650.00	57.00	57.00	0.00	18-Jan-22
2	AI	WS01-MN	7V43523	07-Dec-21	5280.00	4100.00	1616.00	3664.00	2775.00	889.00	889.00	0.00	18-Jan-22
3	AI	WS04-MN	7V43531	22-Dec-21	5280.00	4100.00	2924.00	2356.00	2925.00	-569.00	-569.00	0.00	31-Jan-22
Total					13728.00	10550.00	6001.00	7727.00	7350.00	377.00	377.00	0.00	

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Game status (check one):
 Played Destroyed with Revenue approval Reported as fund losses Defective Missing
 Fund loss game destroyed by Revenue

	A Mfg ID	B Part Number	C Serial #	D Date in play	E Ideal gross receipts	F Ideal prizes	G Value of unsold tickets	H Gross receipts (E minus G)	I Value of prizes paid	J Net Receipts (H minus I)	K Cash in hands	L Cash long / (short) (K minus J)	M Date game removed
4	PG	XB01003	6055120	26-Dec-21	500.00	425.00	0.00	500.00	425.00	75.00	75.00	0.00	02-Jan-22
5	PG	XB01002	6041943	03-Jan-22	275.00	230.00	0.00	275.00	230.00	45.00	45.00	0.00	08-Jan-22
6	PG	XB01001	4783223	09-Jan-22	550.00	465.00	0.00	550.00	465.00	85.00	85.00	0.00	16-Jan-22
7	PG	XB01002	6041647	17-Jan-22	275.00	230.00	0.00	275.00	230.00	45.00	45.00	0.00	23-Jan-22
Total					1600.00	1350.00	0.00	1600.00	1350.00	250.00	250.00	0.00	

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Federal ID number 00000	Minnesota tax ID 00000	License number 01870
Name of gambling site Rich Spring Golf	Site permit number 009	Month/year reported 1/2022
		Page 1 of 1

Type of operation: Booth Bar-op Machine dispenser

Type of game (check one): Paper Pulltabs Electronic Pulltabs
 Sports Tipboards Progressive tipboards Paddletickets Tipboards
 Paddletickets (PW) Progressive pulltabs

Game status (check one): Played Destroyed with Revenue approval Reported as fund losses Defective Missing
 Fund loss game destroyed by Revenue

	A	B	C	D	E	F	G	H	I	J	K	L	M
	Mfg ID	Part Number	Serial #	Date in play	Ideal gross receipts	Ideal prizes	Value of unsold tickets	Gross receipts (E minus G)	Value of prizes paid	Net Receipts (H minus I)	Cash in hands	Cash long / (short) (K minus J)	Date game removed
1	IG	1PT1	1058621	19-Jan-22	300.00	300.00	0.00	300.00	190.00	110.00	110.00	0.00	19-Jan-22
2	IG	5PT1	2866301	19-Jan-22	1500.00	1500.00	0.00	1500.00	950.00	550.00	550.00	0.00	28-Jan-22
Total					1800.00	1800.00	0.00	1800.00	1140.00	660.00	660.00	0.00	

Worksheet E – Lawful Gambling Combined Receipts Tax

Complete this schedule to determine if you owe tax on combined receipts. Report gambling activity from July 1 through June 30 of the next year. Start over at zero each July 1. Keep this schedule to use when completing next month's Worksheet E. Do not mail it to the Minnesota Department of Revenue.

	Federal ID number 00000	Minnesota tax ID number 00000	License number 01870
Organization name Chain of Lakes Richmond Sauk River			Month/year reported 1/2022

Receipts	1	Interest and other income (from this month's Form G1, line 5, Column C)	1	0.00
	2	Receipts from electronic linked bingo games (from this month's Form G1, line 6, Column C)	2	244.32
	3	Receipts from tipboard games (from this month's Form G1, line 7, Column C)	3	0.00
	4	Receipts from paper pull-tab games (from this month's Form G1, line 8, Column C)	4	377.00
	5	Receipts from electronic pull-tab games (from this month's Form G1, line 9, Column C)	5	10397.70
	6	Add lines 1 through 5.	6	11019.02
	7	Amount from last month's Worksheet E, line 8 (enter zero if this is the July Worksheet E)	7	97715.16
	8	Add lines 6 and 7.	8	108734.18
Tax	9	Go to the table below, determine the tax for line 8 and enter it here	9	11697.00
	10	Amount from last month's Worksheet E, line 9 (enter zero if this is the July Schedule E)	10	9714.00
	11	Combined receipts tax due (subtract line 10 from line 9).	11	1983.00

Enter the result here and on this month's Form G1. If positive, enter on line 13 of Form G1. If negative, enter the amount on line 19 of Form G1.

Combined Receipts Tax Table				
If line 8 is :				
over	but no more than	subtract from line 8	multiply result by	add
\$0	\$87,500		9% (.09)	\$0
\$87,500	\$122,500	\$87,500	18% (.18)	\$7,875
\$122,500	\$157,500	\$122,500	27% (.27)	\$14,175
\$157,500		\$157,500	36% (.36)	\$23,625

Enter the result on line 9 above.

Lawful Gambling Fund Reconciliation

Organization name Chain of Lakes Richmond Sauk River	License number 01870	Month/year reported 1/2022
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Checking Account

1	End-of-month checking account balance from bank statements (include from all checking accounts).....	1	16261.47
2	Deposits made during the month that are not included on bank statement.....	2	0.00
	Add lines 1 and 2.....		16261.47
3	Checks written during the month that are not included on bank statement.....	3	3554.18
4	End-of-month reconciled checking account balance (subtract line 4 from line 3).....	4	12707.29

Additions

5	End-of-month cash balance in starting cash banks (from this month's Form G1, line 24).....	5	8829.00
6	Cash received but not deposited by month end from sales of games reported on LG100A (do not list amounts included on line 2 above).....	6	3949.52
7	Total in savings accounts and other non-checking accounts.....	7	0.00
8	Fund loss requests for profit carryover adjustments submitted to Gambling Control Board, but not yet acted upon by the board.....	8	0.00
9	Amounts to be reimbursed for denied fund loss requests, or for fund losses for which a profit carryover adjustment has not been requested.....	9	0.00
10	End-of-month value of merchandise prize inventory	10	0.00
11	Other additions	11	0.00
12	Total additions (add lines 5 through 11).....	12	12778.52

Subtractions

13	Linked bingo prize amount payable to (receivable from) linked bingo provider.....	13	-160.73
14	Receipts deposited from games still in play that are not included on LG100A.....	14	0.00
15	End-of-month amount due for loans made to gambling fund.....	15	0.00
16	Total unpaid invoices for merchandise prizes.....	16	0.00
17	Calendar raffle and other prizes reported on an LG100A that have not yet been paid to winner(s)...	17	0.00
18	Other subtractions	18	0.00
19	Total subtractions (add lines 13 through 18).....	19	-160.73

Reconciliation

20	Reconciled gambling fund balance (subtract line 19 from sum of lines 4 and 12).....	20	25646.54
21	Gross profits for the month (total of all schedules A, line 11C).....	21	12563.02
22	Total lawful purpose expenditures (Total from LG100C).....	22	2287.00
23	Allowable expenses (Form G1, line 24).....	23	4175.37
24	Profit carryover increase (decrease) (line 21 less sum of lines 22 and 23).....	24	6100.65
25	Profit carryover (from prior month's Schedule F, line 27).....	25	19545.89
26	Approved adjustments by the Gambling Control Board (required written approval).....	26	0.00
27	Profit carryover for this month (add lines 24 through 26).....	27	25646.54
28	Profit carryover variance (subtract line 27 from 20; if lines 20 and 27 do not match, see instructions).....	28	0.00

Explanations

In the space below, briefly explain other additions reported on line 11 and/or other subtractions reported on line 18:

Schedule C : Lawful Purpose Expenditures

Organization Name Chain of Lakes Richmond Sauk River			License Number 01870					
Month/year 1/2022		Is this an amended Schedule C ? <input type="checkbox"/> Yes <input type="checkbox"/> No			Page 1 of 1			
Schedule C: Lawful Purpose Expenditures								
Membership Approval Date	Check or electronic payment		Payment to	Description (Purpose)	Premise	If approved by GCB enter date	Code	Amount
	Date	Number						
24-Jan-2022	24-Jan-2022	ET	MN DEPT OF REV		009		A08T	2287.00
								2287

FEBRUARY 18,2022 MTG

APPROVAL: ALLOWABLE EXPENSES – JAN. numbers

Central Gaming	pulltab dispenser	0-\$270.00	\$ 261.44
B-SMART	monthly reports	0-\$750.00	\$ 750.00
Triple Crown	games –	0-\$4000	\$ 614.37
	etabs		\$2901.46
Pilot Games	etabs	0-\$250	\$ 94.07
Shady's Longshots	rent	0-\$3000	\$ 1335.77
Teals	raffle prizes	0-1500	\$1083.00

PREAPPROVAL: LAWFUL PURPOSE EXPENDITURES

MN Dept of Rev	gambling tax	A-8	\$ 2210.00
Sauk River Chain	donation	A-1	\$



2021 Sauk River Chain of Lakes Monitoring Report

Water Quality Testing Parameters

- Total Phosphorus (TP)

Sources: eroding soil, fertilizers, wastewater release, industrial activity, groundwater

- Chlorophyll A (chl a)

Measures amount of algae; higher levels are indicative of excess nutrients in a waterbody



- Secchi Disk

Assess water visibility as an indicator of water quality



Carlson Trophic State Index

oligotrophic - CTSI >0–35, Clear water with good oxygen conditions for aquatic life.

mesotrophic - CTSI 35–50, Moderately clear water but increased probability of low oxygen conditions.

eutrophic - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen

hypereutrophic - CTSI 70–100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.



The trophic state index(TSI) of Carlson was calculated using the following formulae

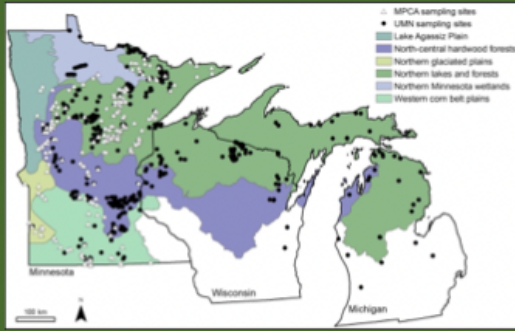
- TSI for Chlorophyll-a (CA) $TSI_{CA} = 9.81 \ln \text{Chlorophyll-a} (\mu\text{g/L}) + 30.6$
- TSI for Secchi depth (SD) $TSI_{SD} = 60 - 14.41 \ln \text{Secchi depth (Meters)}$
- TSI for Total phosphorus (TP) $TSI_{TP} = 14.42 \ln \text{Total phosphorus} (\mu\text{g/l}) + 4.15$

where TSI is Carlson Trophic State Index and ln is Natural logarithm.

Carlson's trophic state index (CTSI) = $[TSI_{TP}] + [TSI_{CA}] + [TSI_{SD}] / 3$

TP and Chlorophyll-a in micrograms per litre, SD transparency in meters.

Ecoregions and Water Quality



Below are typical measurements one might find for lakes and streams in this ecoregion.

Lakes							
Field pH	TSS (in mg/L)	NO _x (in mg/L)	TP (in mg/L)	Turb (in NTU)	Secchi (in m)	Chl a (in ug/L)	TKN (in mg/L)
8.0-8.8	2-6	<0.01	0.020-0.050	1-2	1.5-3.2	0-22	<0.60-1.2

Carlson TSI of 46 – 58
Mesotrophic to Eutrophic

Site Specific Standards

Lakes	TP (µg/L)	Chl-a (µg/L)	Secchi Disk (ft)	Carlson TSI
North Central Hardwood Forest General	<40	<14	>4.6	56
Sauk River Chain of Lakes Site Specific Standards				
Schneider Lake	<40	<14	>4.6	56
Non-Flowage Lakes: Cedar Island Main, Horseshoe South	<55	<32	>4.6	61
Flowage Lakes: Zumwalde, Krays, Knaus	<90	<45	>2.6	67
Rivers	TP (µg/L)	TSS (mg/L)	Secchi Tube (cm)	
Central River Nutrient Region (RNR)	100	30	>35	-



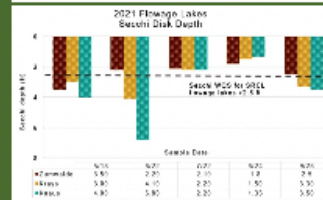
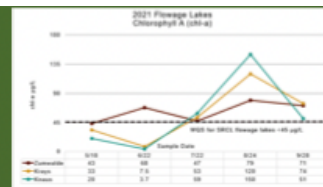
Flowage Lakes

Zumwalde, Krays, Knaus

Observation Date	Zumwalde CTSI	Krays CTSI	Knaus CTSI
5/18/21	64	64	60
6/22/21	72	60	57
7/22/21	73	72	72
8/24/21	74	77	78
9/28/21	69	67	66

Flowage WQS = TSI < 67

- oligotrophic** - CTSI >0-35, Clear water with good oxygen conditions for aquatic life.
- mesotrophic** - CTSI 35-50, Moderately clear water but increased probability of low oxygen conditions.
- eutrophic** - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen
- hypereutrophic** - CTSI 70-100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.



Flowage Lakes Carlson Annual Average Carlson Trophic State Index



Flowage WQS = TSI < 67

YEAR	Zumwalde CTSI	Krays CTSI	Knaus CTSI
2010	69	69	69
2011	70	70	70
2012	-	70	71
2013	-	69	69
2014	-	-	-
2015	70	69	70
2016	69	68	65
2017	65	65	64
2018	67	66	64
2019	67	68	67
2020	69	68	67
2021	71	69	68

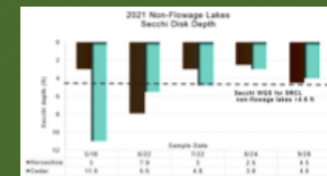
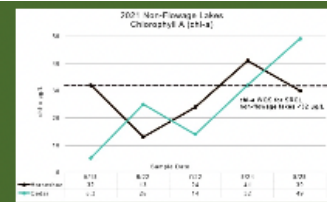
Non-Flowage Lakes

Horseshoe, Cedar Island

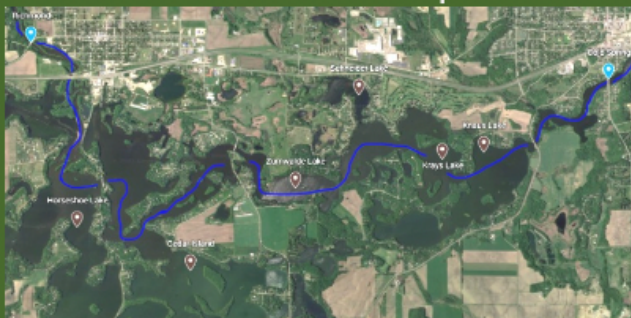
Observation Date	Horseshoe CTSI	Cedar CTSI
5/18/21	62	48
6/22/21	57	59
7/22/21	63	58
8/24/21	68	63
9/28/21	65	64

Non-Flowage WQS = TSI < 61

- oligotrophic** - CTSI >0-35, Clear water with good oxygen conditions for aquatic life.
- mesotrophic** - CTSI 35-50, Moderately clear water but increased probability of low oxygen conditions.
- eutrophic** - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen
- hypereutrophic** - CTSI 70-100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.



Non-Flowage Lakes Annual Average Carlson Trophic State Index



Non-Flowage WQS = TSI < 61

Year	Horseshoe CTSI	Cedar CTSI
2010	67	63
2011	67	68
2012	-	-
2013	-	-
2014	69	65
2015	63	63
2016	63	57
2017	60	54
2018	64	54
2019	65	59
2020	65	61
2021	63	59

- oligotrophic** - CTSI >0-35, Clear water with good oxygen conditions for aquatic life.
- mesotrophic** - CTSI 35-50, Moderately clear water but increased probability of low oxygen conditions.
- eutrophic** - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen
- hypereutrophic** - CTSI 70-100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.

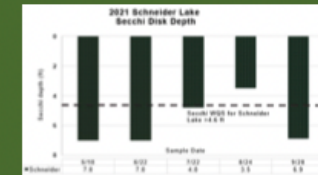
Schneider Lake

NCHF

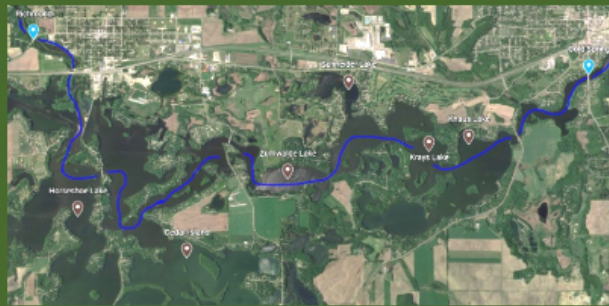
Observation Date	Schneider CTSI
5/18/21	52
6/22/21	53
7/22/21	56
8/24/21	60
9/28/21	57

NCHF WQS = TSI < 56

oligotrophic - CTSI >0-35, Clear water with good oxygen conditions for aquatic life.
mesotrophic - CTSI 35-50, Moderately clear water but increased probability of low oxygen conditions.
eutrophic - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen
hypereutrophic - CTSI 70-100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.



NCHF Lake Annual Average Carlson Trophic State Index

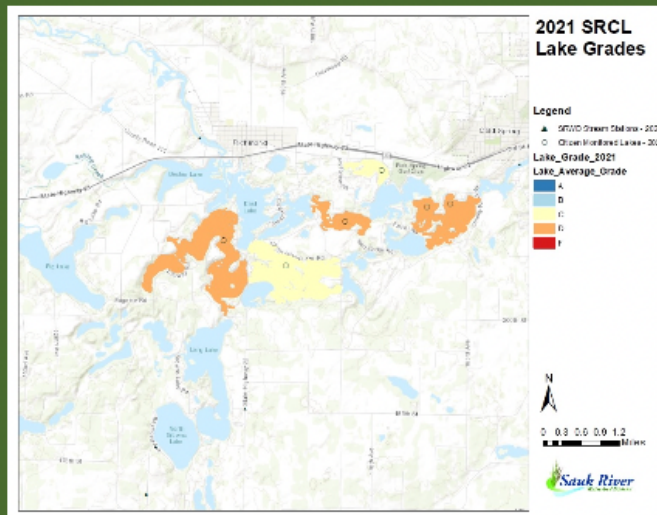


NCHF WQS = TSI < 56

Year	Schneider CTSI
2010	55
2011	53
2012	56
2013	58
2014	54
2015	54
2016	56
2017	51
2018	54
2019	52
2020	56
2021	56

oligotrophic - CTSI >0-35, Clear water with good oxygen conditions for aquatic life.
mesotrophic - CTSI 35-50, Moderately clear water but increased probability of low oxygen conditions.
eutrophic - CTSI 50-70, Decreased visibility, algae scum, extensive aquatic plant growth, low oxygen
hypereutrophic - CTSI 70-100+, Heavy algae and aquatic plant growth, low oxygen conditions, summer fish kills.

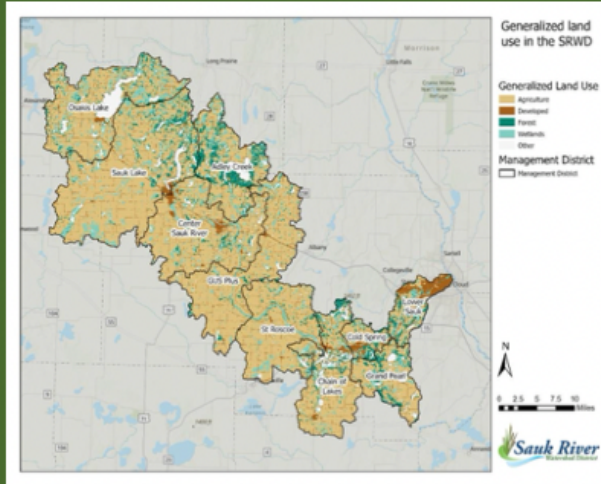
2021 SRCL Lake Grades



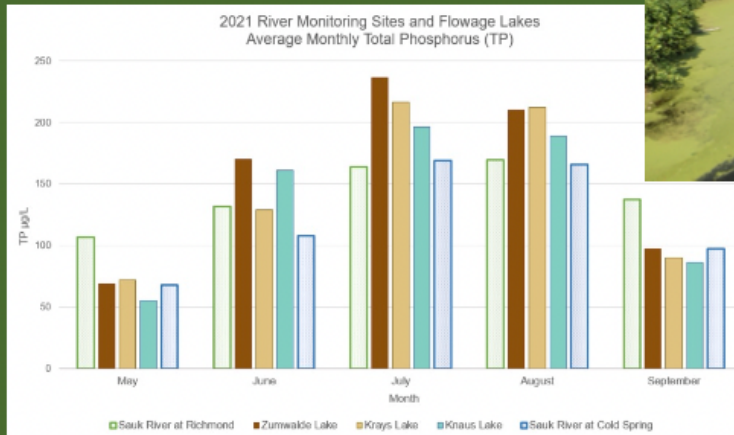
Lake	2021 Average TSI	WQS TSI
Zumwalde	71	<67
Krays	69	<67
Knau's	68	<67
Horseshoe	63	<61
Cedar	59	<61
Schneider	56	<56

2021 SRCL Future Monitoring

- Upstream river and tributary loading of total phosphorus and other usually limited nutrients entering the chain system in flowage lakes will make nutrient reduction difficult. Upstream water quality improvement projects will be needed.



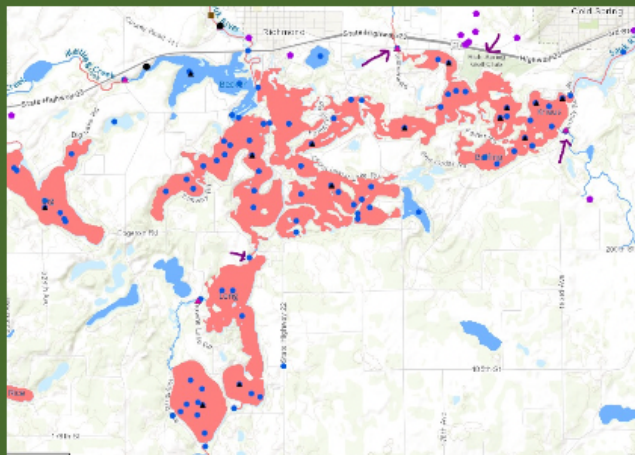
Sauk River and Flowage Lakes



Sauk River at Richmond
August 2021

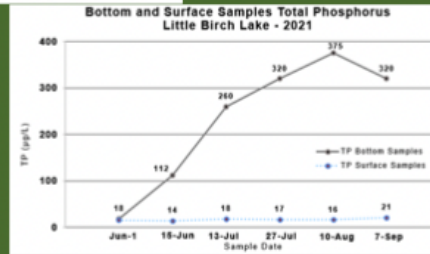
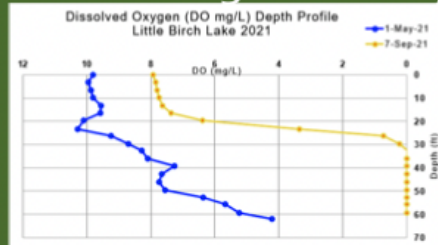
2021 SRCL Monitoring Summary cont...

- Tributaries to the lake chain system have not been sampled since 2009, and data collected at that time shows very high levels of TP in Spring, in March in particular, from those tributaries. Additional comparative samples will be necessary to assess if lake tributaries are heavily effecting individual lake conditions, as well as the chain as a whole.



2021 SRCL Monitoring Summary cont....

- Identifying if deeper lakes in the chain are undergoing internal nutrient loading due to lake bottom conditions. Lakes that are layered, with lower oxygen and temperature conditions at the bottom than the top of the lake, could be contributing further phosphorus and nitrogen to the system as bacteria at the lake bottom break down the settled organic matter and release those nutrients.



"The Mission of the Sauk River Watershed District is to apply our unique abilities and authorities in ways that protect and enhance our watershed's waters and natural resources for today and tomorrow."

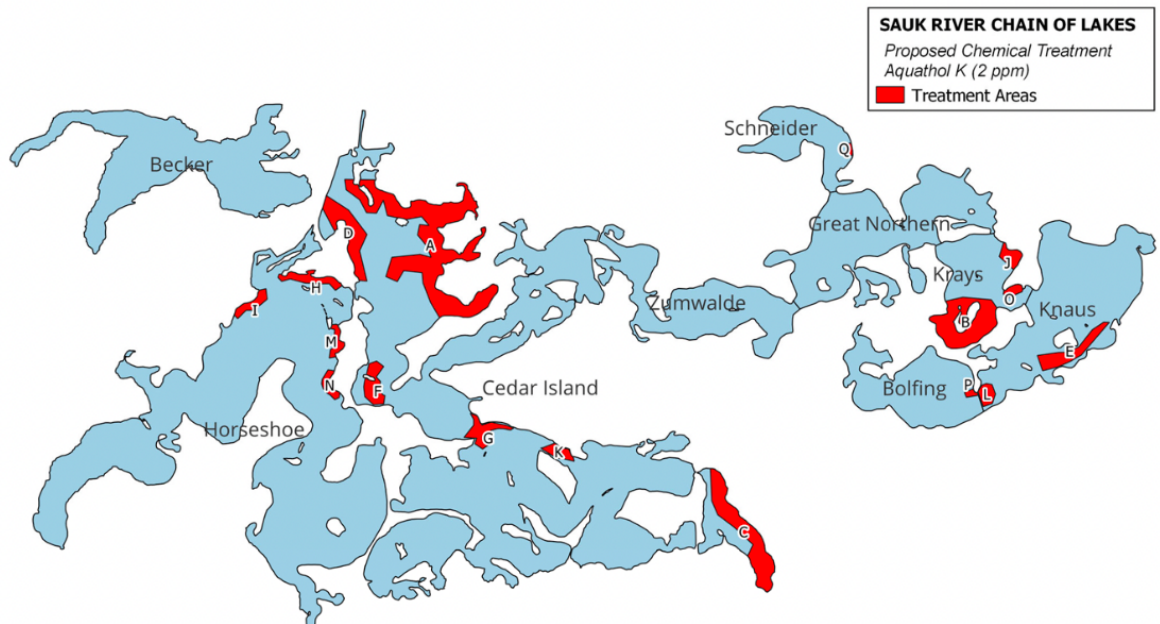
Allison Lightfoot - Monitoring Coordinator
 allison@srwdmn.org
 320-352-2231



Plot	Acres
A	84 *
B	29 *
C	29 *
D	18 *
E	11 *
F	8 *
G	8 *
H	7 *
I	5 *
J	5 *
K	4 *
L	4 *
M	3 *
N	3 *
O	2 *
P	1 *
Q	1 *

TOT	223
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*New or expanded area



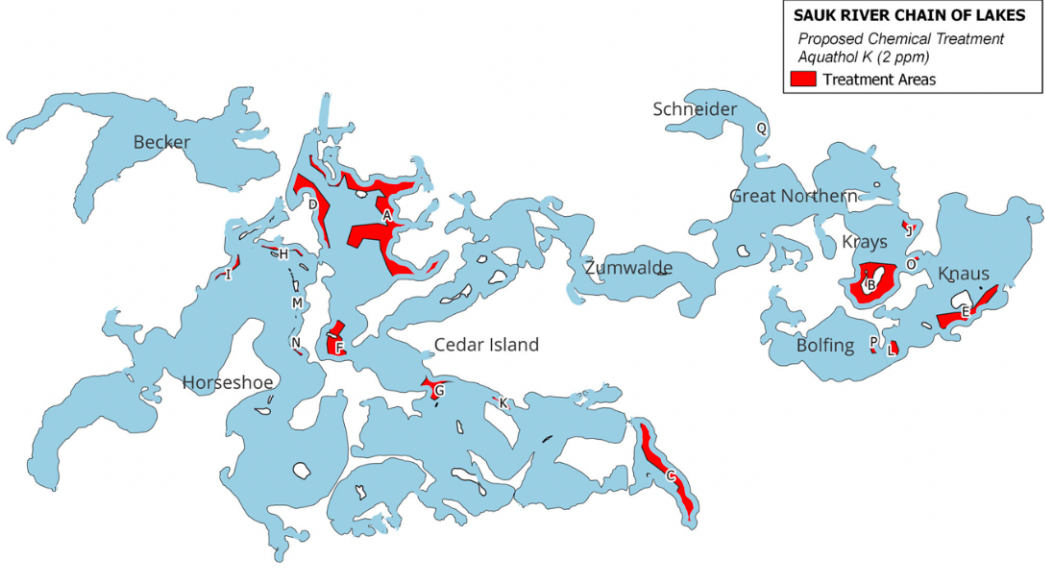
Linnopro Aquatic Science, Inc. 2022

REMOVED 150 ft SHORELINE BUFFER

Plot	Acres
A	36 *
B	18 *
C	12 *
D	9 *
E	9 *
F	7 *
G	3 *
H	1 *
I	1 *
J	1 *
K	0 *
L	2 *
M	0 *
N	0 *
O	0 *
P	0 *
Q	0 *

TOT	101
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*New or expanded area



Linnopro Aquatic Science, Inc. 2022

2021 I-LIDS Summary Data

- 500 videos reviewed per month per site in 2021
- Increase to 1000/month for 2022
- Launch= boat going in the water
- Violations noted were all for rigs leaving the landing with a boat retrieved

SRCL I-LIDS Summary 2021					
Landing Site	Videos Captured	Videos Reviewed	Total Launches Counted	Violations Noted	Launch/Video %
Highway 23	4,280	2,816	401	0	14%
Highway 22	20,113	3,094	748	7	24%
Highway 71	10,124	3,089	363	0	12%
Long Lake	5,472	3,210	536	0	17%

Improving AIS Regulatory Compliance at SRCL Landings



Summary

- Launch events at our four access points provide a primary means to import and export AIS in/out of the Chain
- I-LIDS Installation has provided a means to collect activity and compliance data on a sample basis
- What more can/should we do to improve the regulatory compliance of those that use our launch sites?

The Opportunity

- Each time a launch occurs it is a chance to import AIS into our lakes
- There is an equal number of retrievals out of the lake
- We seem to have a record of good compliance, but it only takes one offender to do damage

Total Observed Launches May-September				
	Year			
Launch Site	2018	2019	2020	2021
Highway 23	689	673	496	463
Highway 22	902	787	897	824
Highway 71	708	468	498	411
Long Lake				644
				2342

- Data is based on observed **launch** counts from I-LIDS video reviews
- Annual data is normalized to take into account the number of video reviews per month for the calendar year
- The data above **understates** the actual number of launches that occurred

The Opportunity

Sauk Chain Hwy 22 2021-06-27 08:59:08



Compliance Improvement Ideas

- Increased awareness through visible signage
- Providing tools for ease of compliance
- An integrated plan for implementing both strategies

The Opportunity



Improving Visible Signage

- Increased awareness through visible signage
- The DNR has a manual available with approved signs and a planning process to install signs



Compliance Tools

- Tools provided at the launch site may make it easier to remove debris that is hard to get at
- To be effective, these would need to be placed in a spot that rigs would stop and use them



Water Access Site Plan

