

Pickereel-Kimball Lakes Association Meeting – Minutes

May 30, 2016: Taken by Jen Simpson, Secretary

Location: Camp Henry at 9:00 a.m.

Agenda:

1. Welcome
2. Camp Henry Update
3. Introduction of the PKLA Officers
4. Introduction of New Owners on the lakes
5. Treasurers Report – Leanne Krystiniak
6. Secretary's Report- Jen Simpson
7. Zone Representative Update- Bill Alsover
8. Weed Control Update- Lynn Norlin
 - a. Cisco Minnows – Delays Spraying Until June
 - b. Eel Grass Schedule
9. July 4th Activities
 - a. Boat Parade – July 2
 - b. Boat Parade Theme 2016 – TV Shows
 - c. Fireworks – July 2nd, rain out date July 9th
 - d. Camp Newaygo – Chinese Lanterns - Jalisa
10. Camp Newaygo – dinners - Jalisa
11. Discussion – Lake Nutrients – Bill Alsover, Bob Clouse

John Schorr (President – referenced as "J" throughout notes): Good morning. Welcome all to association meeting. Thank you to Camp Henry for hosting.

Maura from Camp Henry gave update. Welcome to Camp Henry, we've been very busy with construction, updated dining hall, and this facility. Mission matters campaign fundraising, were helped out by church campaign, have 1700 kids already registered. Focused now on completing our scholarship fundraiser. Goal is \$110k, have \$70k thus far. Year round, had a lot of groups this spring, and this building will be helpful for warm retreat. Maintenance folks head up those projects, and next fundraising will help them with the new place. Feel free to walk through our new dining hall. Sleep 270 at camp but could only feed 187 so had to make that hall a little bigger.

J: Intro of the board. Get a hold of us, typically an issue comes in via email, and one of us will get back to you.

New Members: Joe Madson, parents bought a place on Pickereel. Scott Ritten, new to Kimball. Vic Urklies (sp?) on Kimball. Gary Nestle, Kimball.

Leanne: Treasurer's report. Balance \$XXXXXXXX. Summary of bills = balance of \$XXXXXXXX

Motion to accept, and so moved.

Jen: Report minutes in packet hand out. Any questions let me know. They will be noted as accepted on website after motion to accept at this meeting. Motion to accept Secretaries report.

Bill Alsover: Zone Rep: Got last check on Jan 28th, and we collected from 204 residents, most paid the \$40, some paid more, some paid less, some paid 2 years etc... It's about 2/3rds of the lots and places for sale. Total \$8,145 collected, and personal thanks to zone reps. Packets are up on the stage for the zone reps. Is a neat way to walk around and meet people, in general enjoyable experience, and we have a need for replacements. Doesn't have to be your part of the lake, give Bill your name & address.

Lynn Norlin on weed control:

Can't spray for algae from Nov to June 1 due to Cisco Minnows. Have to get the algae off plants prior to other treatments, so that's the first step. Sabin is scheduled to do our lakes next week. Will do eel grass treatment sometime in July, treated one time this summer. One day water usage restriction, same for algae. It won't be instantaneous, likely be 3 years to see good benefits. 30 acres in Pickereel, and 10 acres in Kimball but think that was updated to 15-10 acres.

Member (referenced as "M" go forward in notes): anything special about June 1 deadline?

Lynn: apparently has to do with the spawning, and I read report on a study of all lakes in MI, and apparently study was on size, depth, water temps but 4 inland lakes have possibility of supporting them, Pickereel is 1 of 4..

M: we are just going to put down weed mats, and helps in 2 weeks, and can make a big area have no weeds, one is 10 years old. Cost around \$300 for week mat. Camp and Cruise have them.

M: have 12X20 and it was \$350.

M: Eel grass, get rid of some of the floating?

Lynn: sympathize with all in north shore, going to try to keep it from spreading, and keep away and prop wash pulls from bottom and floats to the top.

M: Alternative methods as opposed to spraying?

Bill Alsover: have place on agenda to discuss other methods

J: Ask if you cut the weeds rake them up, we've had members call about weeds cut that were floating weeds.

Nina Fox: Muck Mat – option as design to cut down on the weeds, a mesh type material that stays put so when you walk on the bottom it's like a big snow shoe. Make them in Caledonia so have weed and muck mat control.

Nina: 2nd of July, TV shows boat parade. There will be a dock drop mid-June with all activities. Time of parade will be 7:30. Like as many boats as we can get, encourage you to enter. If don't want to do TV shows you can do patriotic theme.

Jalisa – from Camp Newaygo: Can buy the lanterns through us. Three Ridge dinners (2 in July, 1 in Aug), Tuesday July 12th ice cream social, and zip line hours on-line. June 19th, bag piper at Camp Newaygo. All fliers in the back of the room.

J: Fireworks start at dark. Carl McCloud is a purist and likes it dark. If you see fireworks and not up 800 ft, it's not ours. The barge will be out there again, great display last year, looking forward to this year. Need to be east of reed island, and if you want to see from land, you can stand at boat launch.

J: Lake Nutrients is a write up on last to pages of the packet regarding the next topic. (attached here with minutes).

Bill Alsover: I'm on Pickerel, and Bob Clouse and I started chatting, and what we're trying to accomplish is the undo of some of the things of the past and use of chemicals. Bob and I began to really talk with Drain Commissioner (Dale) about what's going on with other lakes in the county. Dale put a meeting on in White Cloud, and a company called Restorative Lake Sciences was there to talk about MI lakes in general. Made 2 contacts with folks at that meeting, and Jennifer Jones from RLS put together a proposal that highlights the report.

Bob Clouse: Appreciate from the PKLA board some time to talk about this issue. Kind of varied group, we've been on Kimball for 37 years, some are various ages, but we all have in common goal as good stewards of our lakes. We've seen algae blooms, and in some deterioration but not sure why. MI Clean Water Core, has done testing for at least the last 10 years. Nitrogen has never been tested in our lakes, we test for phosphorus. See separate handout of results in Memorial day packet. We started thinking, why are we so much worse? We have this philosophy that phosphorus is coming from streams as it drains via sand bar stream. Look at map with streams that are agricultural that lead to our lakes. See Map in packet handout. RLS suggested testing streams, and impact from agricultural run-off especially after a rainfall. Kimball feeds to Pickerel, so we should all be concerned.

The motion that we want to talk about is for \$6,400 to pay for half of this projects cost to do the testing on the streams and the lake themselves. Asking for PKLA to put some skin in the game before we get to receive the rest of the money. About 200 dues paying members, \$6000 is about \$30 per dues paying member. What about getting someone else to pay for it instead of us? DNR does not have a program to do the kind of testing we want. DEQ, Michelle Story asked and they have said they have no programs to do inflow stream, do partner with Micro on phosphorus. DEQ has said they would be happy to do testing, but don't do nitrogen, just phosphorus. Competitive bid? They went to Fremont, and total cost of MSU doing this was \$25k. Our proposal is for half of that.

Motion: "Hire Restorative Lake Sciences (RLS), to test the inflow streams to Pickerel and Kimball Lakes and the lakes themselves at 11 total sites in July, September and October to help determine the source of nutrient pollution, (see attached map for info on PK watershed and testing sites). At least one testing will occur shortly after a significant rainfall to evaluate the effect of storm water nutrient runoff. The parameters to be tested include phosphorus, ortho phosphorus, nitrogen (including ammonia NH3, nitrate, and nitrite), chlorophyll-a, total suspended solids, flow rates along with some physical measurements like dissolved oxygen, pH, temp, etc.

In addition RLS would provide an analysis of the results and recommendations on further action. The total cost of the study is \$12,760. We are asking PKA to pledge 50% of the cost, \$6,380, the pledge being contingent upon securing the balance from other sources prior to July 1, 2016."

M: Is this a one year thing?

Bill: This is a study, and if you want to copy of it, we can email it to you, just let us know.

M: What is cost to correct the problem?

Bob: We know we have high phosphorus. Could be 3 different reasons: Lawns, sewers prior to sewer system, could be on bottom of our lakes, or streams that dump into the lakes. We may find that streams have no bearing, but personally I do. Study will tell us where it is coming in, and then we can go to state organizations, Muskegon Watershed assembly to get grants to remediate the problem. We need to start with the testing to identify.

Bill: Ryerson Lake is ahead of us in improving their water quality, sewers since the 80's, and brochure on don't fertilize your lawns. They have converted what is 8 acres to a "buffer" zone for the phosphorus to filter through and it's improving.

M: If we decide if it's coming through the streams, is there an authority that says to a farmer that they have to reduce that?

Bob: Not aware of a group that has authority to do it. But if you can show them a reasonable way to remediate it....

M: What do we know about phosphorus use around the lake?

J: We talk about it as association, and encourage all owners on lakes you want middle numbers to be 0.

Bill: Dr. Jude did some research: 80% of phosphorus was sewer, and 8% was lawn contribution.

M: Dan Johnson has been doing testing with disk, and he's been doing testing on his own because a hobby of his own. He's coming back in June, and like to get his records of each year he's been doing this. He will get us some of Dan's info.

Bill: His records have been posted on the Micro sites. Last posting was 2013, but doesn't address the source.

M: Who is going manage this? There is an association called TNDL for non-point source. Bill and Bob's hypothesis is likely on par. Why does it matter? In short period of time when Kimball is phosphorus overload, it does what a watershed does and sends it downstream. A 50% grant, no such thing as free money, and that's about as good as you get and the 2 gentlemen are willing to work for it. Need to move ahead because it will do nothing but get worse.

M: Total cost does it fluctuate with the testing sites?

Bob: Certain amount of fixed costs in mapping. The fewer amount of test sites would diminish costs somewhat, and these test sites, Bill, Bob agreed this would be minimum to get info.

Bill: Original proposal was 5 months of testing, but they revised it to 3 months when we asked.

M: Not duplicating the testing Mr. Johnson did.

M: Do we know how much Ryerson has reduced theirs; they have an on-line brochure for all their lake owners?

Bob: Not able find anything on Micro site, or on their website.

M: Can we learn from their association?

Bill: Their association yes, they will have information. We're trying to find out where the problem is coming from.

Jim Chase: Timing, regarding rainfall. Are we too late this season to get the effects this season for what the maximum effects are?

Bob: RLS said late June, July for storm-water runoff and October/November.

M: Did RLS do their testing?

Bob: Now thinking it would have been helpful to have more info from Ryerson?

M: Do we know who candidates are for potential candidates for grant?

Bob: Lake Board (related to weed control, not the PKLA lake board) has condition to contribute the rest for study, relatively firm commitment.

Bill: We don't have official commitment, but Lake Improvement Board has given relatively firm commitment.

J: Does the Lake Improvement Board have extra \$7k in the treasury.

Bob: Talked with few from Lake Improvement Board, they have assured they would find a way to get the funds.

M: Would funds come out of our treasury?

J: It would come out of the account. We collect about \$8k each year.

M: When they do the collection, is it reasonable to ask to collect for additional funds?

M: If we contribute over \$6k towards this, and sounds like majority comes from farmers and farmers might say they won't change how they are doing their farming. If we were just talking about residents it might change.

Bill: yes, it would be great farmers reduce that, doesn't mean we can't reduce the issue.

M: Are fireworks the same amount as the test?

M: Fireworks are around \$5k (less than this).

M: We suspect there is a source of pollution in the lake, if we don't validate it, we can't do anything about it until we test, and validate.

M: Make a motion to cut off decision to call for a vote. Aye, to cut off vote.

Voted aye by all but by 2 attendees (approx. 90 attendees) to pass the motion above via vote.

J: Bob to get back to board to secure the additional funding before July 1st.

M: Seriously look into ban on phosphorus?

Bob. Already a law and nobody is enforcing.

M: Maybe we can keep reinforcing it.

M: In collection process, ask for help fund this type of testing process.

Bill: Yes, we can put something out on it.

J: Everett Township putting a meeting regarding boat wash, we will have board members to attend.

M: There is an observatory in Freemont we didn't even know about, Stephen F. Wessling observatory. Please don't put lights out down by the water, for the aquatic life, especially large LED lights.

M: Is bow fishing legal?

J: Yes, it is legal except for "excessive noise" because you can hear them coming. Recommend complain to the township.

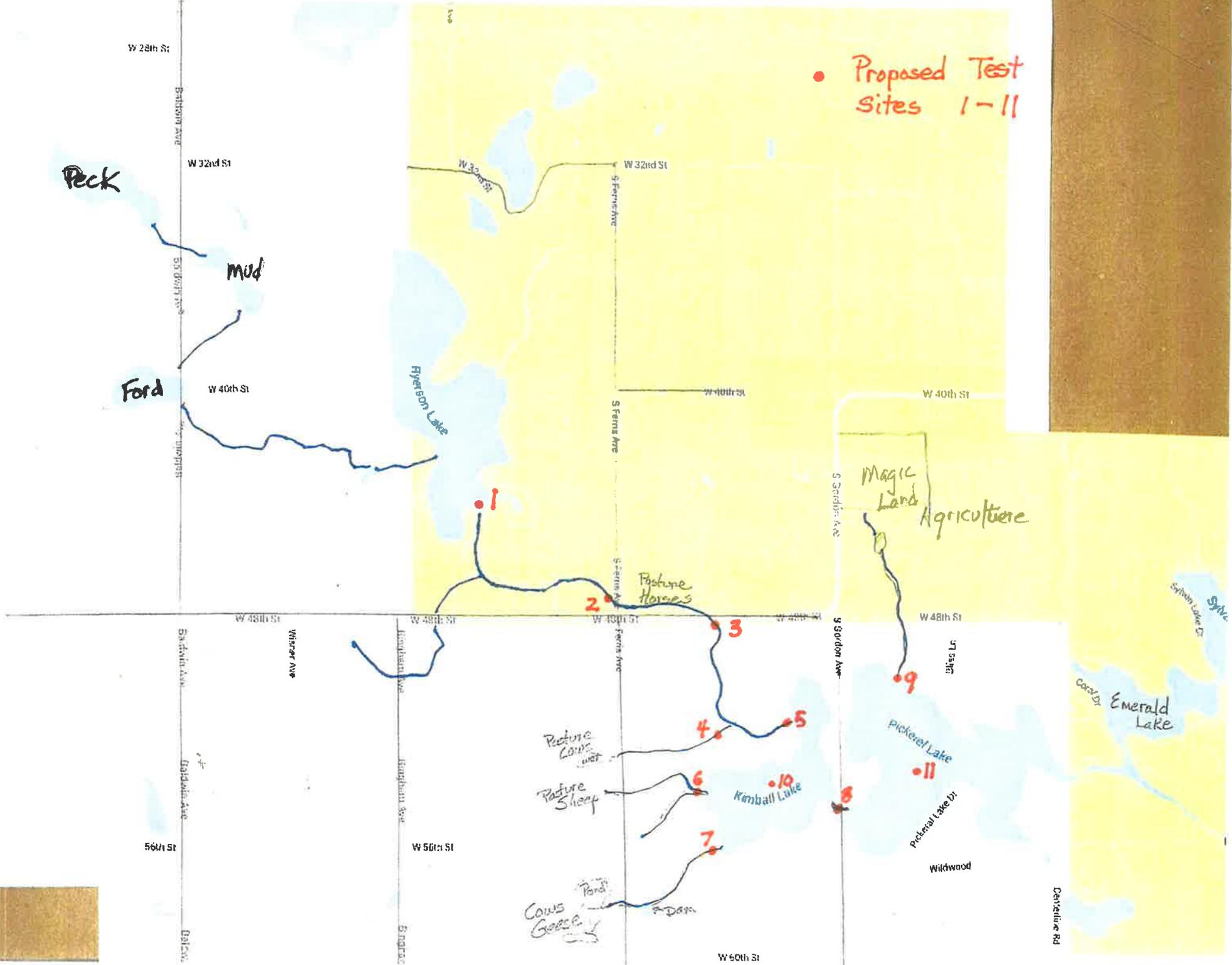
M: Motion to adjourn

M: Aye

J: Meeting closed at 10:24 a.m.

Kimball - Pickkerel Watershed

• Proposed Test Sites 1-11



Proposal for Pickerel-Kimball Inflow Nutrient Pollution Study 5-28-2016

Observed Problems in PK:

- Excessive algae blooms
- Poor water quality

Objective Data

Michigan Clean Water Corps, (MiCorp), phosphorus levels and Secchi Disk transparency:

	Avg. Phosphorus $\mu g/l$	Avg. Secchi
Sylvan 2008 and 2009	10	21 ft
Emerald 2008 and 2009	8	15 ft
Pickerel 2008, 12,13	28	13 ft
Kimball 2008, 12, 13	52	7 ft

In addition, the phosphorus levels in Kimball were higher than 62% of Michigan lakes tested by MiCorp in 2008,(202 lakes) and **worse than 90% in 2012** (196 lakes).

Kimball Lake has much higher phosphorus levels and significantly reduced water clarity compared to the other lakes in the chain. Presuming that the riparian residents of Kimball Lake behave similarly to the residents of the rest of the chain in regards to care of the lake, it appears that the 4 streams which empty into Kimball could be a source of pollution with phosphorus and nitrogen nutrients. However this is only a theory which has not been tested. In addition, we only have MiCorp data on phosphorus levels in PK lakes and not on nitrogen and α -chlorophyll which are also associated with excessive algae and weed growth.

Proposal:

Hire professionals, Restorative Lake Sciences (LRS), to test the inflow streams to Pickerel and Kimball lakes and the lakes themselves at 11-12 sites in July, September and October to help determine the source of nutrient pollution, (see attached map for info on PK watershed and testing sites). The parameters to be tested include phosphorus, ortho phosphorus, nitrogen, (including nitrate and nitrite), chlorophyll- α , total suspended solids, flow rates along with some physical measurements like dissolved oxygen, pH, temp, etc.

In addition LRS would provide an analysis of the results and recommendations on further action. The total cost of this study is \$12,760. We are asking PKA to pledge 50% of the cost, or \$6,380. The balance would be obtained from other sources. It is important to make this pledge today, as any delay will postpone the project for at least a year perhaps indefinitely.

Sincerely,

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