

**Draft Meeting Notes Hayden Lake Watershed Association Inc.
January 28, 2019 Hayden Lake City Hall 9393 Strahorn Road, Hayden Lake ID**

Board members present: Geoff Harvey, President; Jan Wilkins, Vice President (by telephone); Barb Neal, Treasurer; Will Neal, Technology & Communications; Gil Rossner and Gloria Lund. Absent: Todd Walker and Chris Meyer.

Meeting called to order at 6:40 PM

Additions to the Agenda: Aquatic weed informational meeting
Hayden Days
Excess ground water drainage from developed hillsides

Update on Watershed Improvement District

- Transacted usual business
- Considerable discussion of Kootenai County's site disturbance ordinance enforcement
- Results of lake water quality and south shore phosphorous loading
- The last two items will be discussed later in this meeting.

Officer Reports:

Treasurer's Report:

- Barb Neal covered the financial transactions over the past two months.
- Motion to attach dues notice to the semi-annual report, Barb Neal, Jan Wilkins, second, motion passed. Payment will be requested by check
- Required IRS report discussed, Pat Lund will file this form for the Association as in the past.
- Noted all checks double signed; treasurer and president.

Recorders Report:

- The Board still requires a recorder.
- The request that meeting notes be sent out in e-mails after approved was discussed. After some discussion the Board came to consensus to remain with the current action of posting these to the web-site as soon as possible. The Board does not want to add to the members' e-mail load.

Technology & Communications Report:

- The web-site requires update and revision
- Will Neal has set up a new web-site area on a server where he can construct a new web-site
- A forty dollar annual fee will be required to maintain this new site during construction and after the site becomes the new web-site.
- Will is gathering materials from the old site and elsewhere to populate the new site.

Old Business

Bylaws Review and Revision:

- This item was moved up on the agenda
- The Board reviewed and edited the first three pages of the draft bylaws revisions
- The remaining editing will be completed at the next meeting, because the current agenda is larger than normal.

Excessive Boat Wake Issue:

- Representatives of the Association, Will Neal and Geoff Harvey, attended two Kootenai County waterways Advisory Board meetings: December 3rd and January 7th.
- The December 3rd meeting was for the sheriff's wake proposal with little heard from others attending.
 - The Advisory Board only advanced to the commissioners a request for boater education for those operating boats under the age of eighteen.
 - The Advisory Board decided to hold a workshop on January 7th to hear ideas from representatives of interest groups on the excessive wake issue.
 - The Association representatives delivered a letter in support for the Honeysuckle Bay no wake proposal to Nick Snyder of Kootenai County Parks and Waterways.
- During the January 7th workshop session Geoff Harvey delivered the Association's position on the regulation of boats creating excessive wakes.
 - The position is the current 200 feet no wake zone for power boats with the exception of "wake boats" operating to create large wakes; this limit should be 500 feet from shore or docks. This will place this activity well out on lake surfaces and prohibit it on inappropriately narrow sections of lakes or rivers, such as the Spokane River or the North Arm of Hayden Lake.
 - Spokane River Friends and Coeur d'Alene Property Owners' Association stated a similar position with the exception that a no greater than 24 inch wake be allowed within 500 feet of shore or docks.
 - Other positions ranged down to no regulation and owners should rip rap banks to protect them from wake erosion.
 - The Advisory Board will take up this input at its February meeting. The Association representatives will attend.
- Jan Wilkins asked if Gil Rossner had applied for a position on the waterways Advisory Board.
 - Gil had applied, but has heard nothing further.
 - John Condon left the Advisory Board after the December meeting, a new member was appointed by the commissioners.
- The Association's Wake Education program was discussed by the Board.
 - The post card developed and passed out last Labor day requires modification to acknowledge the navigation buoys the Watershed Improvement District plan to install this coming spring, before a new distribution campaign.

- A new campaign date was discussed with a delivery date at the boat launches targeted for Memorial Day or possibly later depending on when boating activity begins in volume.

Sheriff Candidates Forum:

- Forum planning
 - Invitations were sent out.
 - Four replies received from Bauer, Edmundson, Grimm and Norris.
 - Assume Green is disqualified by conviction in Texas.
 - Other lake and river protection groups have been invited to the event; Spokane River Friends has accepted. Discussion of including their input into questions to the candidates.
 - Questions for the forum need to be formulated by Board members; send these to Jan and Barb.
- Some Watershed Improvement District Board members have suggested merging the candidate's forum and an invasive aquatic weed update by the Department of Agriculture.
 - The Association Board agreed by consensus that there is simply not enough time to merge these two events and reject the proposal.
 - The president will inform the District Board.
 - Suggested that the invasive aquatic weed update occur two weeks before the forum or two weeks after.

Semi-Annual Update Report:

- A few small editorial changes made in January 9th Draft: Change in timing of Candidate's Forum, note Barb Neal appointed to sewer board.
- Add notice meeting notes on web-site once approved by Board review
- Add notice of membership dues payable beginning January 1st until the annual membership meeting.
- Issue of including piece of Hayden Lake: A Brief Primer in newsletter taken up; president recused himself from the deliberation on this subject; Will Neal assumed direction of the meeting.
 - Motion to include the book description in the newsletter, Barb Neal, second Gil Rossner. Motion approved.

Potential Spring Association sponsored projects: no progress reported.

New Business:

Participation in Hayden Days:

- Discussed, primarily in terms of the Association's logo to be used at booth. Three potential logos developed by Barb Neal viewed by the Board
- Passed around with favored logos initialed by Board members.

Hayden lake Water Quality and South Shore Monitoring Results reviewed with the Board.

- Physical Data and Plant Growth Nutrient Monitoring data discussed
 - Monitoring completed over past three summers to better define water quality of the area north of Henry's Point as compared to the main body of the lake.
 - Temperature data demonstrates the main lake stratifies each summer with warm water perched atop much colder water; the north arm stations are so shallow that as the lake warms the entire water column is one temperature. This is important because the thermal barrier limits migration of nutrients from the bottom waters into the warm water where algal growth occurs. This limitation does not occur in the north arm where depth are shallow.
 - Other physical characteristics are uniform with some greater variance further north on the lake (Bob's Bay).
- Plant Growth Nutrient Data indicates difference between the main body of the lake and its North Arm
 - Total Phosphorous and ortho-phosphorous data demonstrates that algal growth in the main body of the lake is phosphorous dependent, but phosphorous is not limiting growth in the upper end of the lake.
 - Nitrogen chemical species data indicates nitrite and nitrate concentrations with more in high water years and less in low water years. The appearance of ammonia on occasion in the northern stations suggests plant decay possibly associated with herbicide treatment of invasive aquatic plant. Organic nitrogen calculations indicate much higher algal productivity in the north arm of the lake as compared to the main body of the lake.
 - Nitrogen data indicates algal growth in waters of the North Arm are nitrogen rather than phosphorous limited.
- The results to date dictate a set of conclusions and recommendations for the management of the lake' North Arm

South Shore phosphorous loading monitoring

- Modeling completed for the Hayden Lake Management Plan and its addendum indicates storm water runoff carried high loads of phosphorous into the lake from the south shore. The phosphorous source is believed to be atmospheric deposition on non-infiltrating surfaces.
- To verify this modeling result the Watershed Improvement District monitored storm water discharge to the lake and its total phosphorous concentration for the past three years.
- Four culverts draining heavily populated areas of the south shore and the Highland Community above between the dike and Hayden Lake Marina were monitored.
- Phosphorous load monitoring to date indicates the loading is precipitation dependent as expected.
- However, monitored loads are a small fraction 10-12% of the modeled loading values.
- In addition, it appears logical most of the phosphorous loads measured has its origin in the Highlands Community.
- Based on the data to date capturing a treating storm water to remove phosphorous would not be cost effective. If measures were applied to this phosphorous load, infiltration in the Highland Community would be the most cost effective approach.

Current and Emerging Issues

- Site Disturbance and Lake Buffer Issues

- Failure of the county to effectively enforce its site disturbance ordinance was reviewed with the Board with pictures from an initially unpermitted excavation near 5700 east Hayden Lake Road.
- One other excavation site inadequately managed as well as a site violating the lakeside buffer rules were identified recently.
- The Board will look into the county's planning and building department on the failure to regulate these sites.
- Excess ground water
 - Two cases of appearance of ground water along the lake were noted
 - One site chronically suffers these high ground water conditions; this year it is more extreme.
 - Such increased ground water levels may be related to forest removal on the slopes above these sites.

The next meeting was set for Tuesday, February 25th, subject to change to maximize Board member participation.

Motion to adjourn, Will Neal, second Gil Rossner, Approved

Meeting Adjourned: 9:30 PM