



Devils Lake Water Improvement District
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www.DLWID.org

Quick Look:

- Audit
- Devils Lake Radio

AGENDA

Regular Meeting --- Special Day!
2009 January 08 at 6 pm. in the DLWID Office.

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| I. Minutes of the Previous Meeting | 6:00 |
| II. Financial Report | 6:05 |
| III. Public Comment (Agenda Items, Please limit comments to 5 minutes per person) | 6:10 |
| iv. Special Order of Business: Audit (Signe Grimstad) | |
| V. Unfinished Business (Agenda Support Item A) | 6:40 |
| a. Boat House/Docks | |
| b. Lake Level Update | |
| c. Blog | |
| d. D River Emergency Dredging | |
| e. The Devils Lake Plan | |
| i. Native Revegetation (Jack Strayer) | |
| 1. Tetra Tech | |
| 2. DSL Removal/Fill | |
| 3. DSL Easement | |
| 4. USACE Removal/Fill | |
| ii. Model: DEQ 319 Grant | |
| iii. SolarBees (Brian Green) | |
| VI. New Business (Agenda Support Item B) | 7:30 |
| a. Computer Data Back Up | |
| b. Oregon American Fisheries Society Meeting & Presentation | |
| c. Devils Lake Radio | |
| d. Budget Calendar | |
| VII. Non-agenda Items | |
| VIII. Public Comment (Non-agenda Items, Please limit comments to 5 minutes per person) | |
| IX. Announcements | |
| a. KBCH 1400 am: following Tuesday 7:15 am | |
| b. Next Meeting: February 5 th , 2009 | |
| c. SOLV: May 16 th , 2009, Union 50 | |
| X. Adjournment | 8:00 |

Meetings of DLWID are handicapped accessible under the ADA.
If special accommodations are needed, please contact the District Office at 994-5330 prior to the meeting.

Unfinished Business

(Agenda Support Item A)

- a. **Boat House/Docks:** Met with Jerry Warner, who agreed to re-ignite the issue with the county in the new year.
- b. **Lake Level Update:** Lake is at 10.45' as of 2008-12-31. This is basically the annual mean high. Any land submerged at this point around the lake is basically on state lands. I photographed many spots around the lake including the campground, which was heavily inundated with standing water.
Further Update: Lake Level as of 2009-01-02 was 11.6' and near 1 foot increase from the day before. The D River is still running flow strength to sea. Many calls have been received regarding the lake level. I changed the phone message to reflect the District's awareness of the lake level and the cause of the high water.
- c. Blog: Review and comments from the board
- d. **D River Emergency Dredging:** An emergency dredge of the D River was conducted. This was done outside of a regular permit, but was cleared with DSL. As the District was not responsible for the failure to obtain the necessary permit ahead of time, any fees incurred as a result in my opinion should be paid strictly by the City. The dredging cost is part of our agreement, and I expect James Drayton to bill the city directly. Should we get a bill, we are liable for ½ of the cost. I acted as the project manager for the dredge which took less than an hour. River has been running to sea since, but high winds in the next days might again clog the river. A regular DSL permit has been submitted finally and is available for comment on the www.statelandsonline.com website.
- e. **The Devils Lake Plan**
 - i. **Native Revegetation** (Jack Strayer)
 1. Tetra Tech: Returned the scope of work deemed necessary by Jack to Tetra Tech. Have not received an estimate of cost for the reduced scope as of yet. This is largely just creating a textbook of types of vegetation appropriate, how to plant it, and where to get it. This will be a good resource we can share with other coastal lakes.
 2. DSL Removal/Fill: Jack, Brian & I met with ODFW Dan Avery and John Spangler regarding the permit. Even with a detailed plan regarding the research study it is unlikely that ODFW will recommend the project for potential and unknown impacts to Coho Salmon. They would request we do a large scale impact study as part of the DSL permit should we receive it. This would be timely and cost prohibitive. ODFW is not a regulatory agency though, and thus the final decision goes to DSL. The outcome of the USACE R/F application and NOAA NMFS opinion if favorable to the District would be good to submit to DSL as they conclude their review.
 3. DSL Easement: The application was submitted with a cover letter requesting that no fees be charged for the easement, and for possibly the refunding of the application fee. This was in part prompted by the advice of Chris Castelli of DSL.
 4. USACE Removal/Fill: NOAA NMFS reviews can take 145 days from the day deemed complete. According to Dan Avery who worked for them for 15 years they currently have a 6 month back log. I have not heard anything from US ACE regarding progress, but I did help write a good portion of the Biological Evaluation to be reviewed.
 - ii. **Model: DEQ 319 Grant:** I have heard that we will likely receive 60% funding of our application. This would mean scaling back the project to work mostly with data compilation and data entry in to DEQ's database along with the septic tank component. I have spoken with Joe Eilers about this and he recommended working with Jesse Ford of OSU to help create the workable database we still lack. This would then provide the District a simply tool for data management for the future. Data gap analysis would be conducted by Joe who might also be asked to formulate a more complete monitoring strategy to be funded at a later date. The model aspect would not be funded, as it was deemed beyond the scope of DEQ's funding priority. The grant application itself was highly regarded though I am told.
 - iii. **SolarBees** (Brian Green): Met with Tim Heiberg of TLC Federal Credit Union, who told me that credit unions are forbidden by law from loaning money for more than 15 years. Basically at

the end of 15 years a balloon payment would come due. This would greatly exceed the finances forecasted to be available by the District at that time. They could then refinance, but that would up to their discretion. I suggested to Tim that the District would be unlikely to commit to such a scenario and thus would likely look at alternative financing through a bank possibly. I have yet to contact any such bank, but one that was suggested to me by the Assistant Director of Urban Renewal, Alison Nelson, was Shore Bank-Cascadia, a non-profit lending institution specializing in Green and alternative sort of projects often overlooked by commercial banks. Urban Renewal has had discussions with the institution for projects locally. My other thought is to look at the Oregon Bank here locally or some other bank which might have strong local or regional ties.

- a. **Computer Data Back Up:** last month I investigated and promptly purchased for less than \$100 year a service to back up our data off site. This is an automated service that stores copies of our data in Utah and in Ireland. Our previous system of backing up data crashed and was irrecoverable. This was a desktop 40GB hard drive which the District bought before I was the manager, so I am not sure how old it was. The desktop models while useful do not prevent against fire, electrical surges or water damage that might destroy our computer and any desk top device attached to it. Thus I determined they do not truly function as a back up. While investigating units though, I discovered the offsite service through MOZY.com which I subsequently set up an account as mentioned. This was for 10 GB, but later I realized that much of the data on this computer was not in the MY Documents, but had been placed by Kevin directly on the C Drive and thus was not being backed up by MOZY. These data sets are mostly for the GIS, loss of which would greatly hamper the District's ability to use its software and thus function. I enrolled us for an additional 25 GB which cover the GIS data but also a great deal of other data I had not scheduled for back up to stay beneath the 10 GB. These files include the digital copies of the recordings from our meetings from previous fiscal years and many of the presentation done by DLWID in the past. Overall the cost though has increased to approximately \$250.00 per year, which I believe is warranted for seamless, ongoing back up service. Manually backing up data sets often gets overlooked, and this is a good system to avoid or at least reduce the amount of damage a virus can cause on the functioning of the District. For example last summer when the other computer crashed, I spend untold hours (15-25) transferring files to the GIS computer. Multiply this by the hourly cost to the District to have its manager working on such a project and the inherent value of automatic backup is apparent in my opinion. Should the District want to discontinue the service it may do at any time as I understand. I would propose this become a ongoing budget item under M&S: Office
- b. **Oregon American Fisheries Society Meeting & Presentation:** I was asked by Joe Eilers of Max Depth Aquatics and SolarBees to do a presentation about grass carp and the proliferation of cyanobacteria at their annual meeting in Bend, Feb, 26th, 2009. While honored by the request I turned him down because of the time investment that would be necessary. He countered with the option of "co-authoring" it with him and if I was available I could present the presentation or if I wasn't available he would present it. As he is the session chair during which the presentation is to be presented I am in hopes of attending not only as a professional courtesy, but because of the networking opportunities that could be afforded by meeting another entity of people working in a related field to limnology. Below is the Abstract he drafted and I edited that was submitted. I have sent him some photos and slides of previous presentations to be included in the presentation. This will be the bulk of my contribution, with the exception of possibly and hopefully attending the meeting for at least the one day. The session in which I might present would be in the cyanobacteria and fish session, which may provide additional insight into why Devils Lake should be moving forward with SolarBees and Native vegetation. While I haven't formally priced out a trip, I would estimate one-night's accommodation, food and gas would cover it, so approximately \$200, plus a one-day technical session of \$125, all which could be afforded in our existing conference and meetings budget.

Abstract: Conversion of Macrophytes to Cyanobacteria in Devils Lake, an Unintended Consequence of an Experimental Introduction of Chinese Grass Carp

Devils Lake is a shallow lake on the central Oregon coast that historically had abundant macrophytes throughout most of the lake. This problem became particularly acute in the mid 20th century when invasive species of macrophytes (*Egeria densa* and *Myriophyllum spicatum*) became so widespread and dense that recreational activities were severely impaired. In the 1980's an EPA funded and sponsored Clean Lakes Program led to an experimental macrophyte control program through the introduction of triploid grass carp (*Ctenopharyngodon idella*). To implement the program and for the long-term management of the lake the residents formed a special taxing authority, the Devils Lake Water Improvement District which still exists today. With macrophyte reduction, not eradication as the goal, a phased introduction of a total of 32,050 grass carp were introduced into Devils Lake with stockings in 1986, 1987, and 1993. By 1994, however, all submersed macrophytes had been eliminated from the lake, leaving only small patches of deeply rooted species such as water lilies. Cyanobacteria blooms were noted in 1991 and were also observed again in 1994. Since then, cyanobacteria

blooms have become more frequent and intense, resulting in lake closures in 2007 and 2008. Sediment cores collected in 1993 and 2004 have shown trends toward more planktonic diatoms and taxa that are indicative of eutrophic conditions. The sediment reconstructions also show a pronounced increase in the rate of cyanobacteria resting cells during the later part of the 20th century. The Oregon Department of Fish & Wildlife has indicated that it will not support continuation of the experimental stocking program of grass carp. Consequently, the water improvement district is exploring other interventions for both control of the current level of cyanobacteria and the anticipated return of submersed macrophytes once the last of the grass carp expire.

- c. **Devils Lake Radio:** Dr Chan of OSU and Sea Grant has arranged for Devils Lake to receive and utilize a low wattage radio station. The station continuously broadcasts a recorded message and can be received as I understand up to a mile away, likely line of sight if it is FM. The station gift is part of an Invasive Species Outreach program, and we were hand selected to be the testing ground of such a program. I was eager to hear of such an opportunity and suggested we had a staff person that could build the necessary station housing, which could be at Brown Bear for up and down the lake transmission. I am in hopes of not only broadcasting invasive species messages, but also potentially water quality data and lake facts. Below is an excerpt of the email communications that is bringing this to Devils Lake.

Sam---We have a very low power radio unit at HMSC that has not been operational for many years. It includes a programming unit and an outside transmitter. With a range of a mile or less, it doesn't need FCC approval. The inside programming unit will need to come down soon in one of Lynne Wright's storage rooms as they convert it back into a lab. In talking with Bill H yesterday and trying to imagine any OSG use, I thought about AIS broadcasts at certain boat handling/launching. Maybe there's a demo project somewhere that would include an evaluation component. Anyway, if you have any interest, let me know.----Jay

Dr. Chan's reply: By all means, we can use a low power radio to broadcast AIS/watershed messages. The Devil's lake would be a good trial setting. Several reasons: 1) an active local group and manager who care advocate AIS prevention, 2) they're planning to build a boat ramp and 3) it fits in well with the invasive species quest we worked with Cait on. We've been working with the PSMFC and OSMB on messaging. So there are broader applications.

- d. **Budget Calendar** Attached is the proposed budget calendar.

Devils Lake Water Improvement District
2009-2010
Budget Calendar

8 Jan 2009	Appoint Budget Officer (ORS 294.331)
8 Jan 2009	Establish Budget Calendar
5 Feb 2009	Appoint Budget Committee (ORS 294.336)
5 Mar 2009	Budget Officer Prepares Budget (ORS 294.331)
8 Apr 2009	Publish 1 st Budget Committee Meeting Notice (ORS 294.401)
15 Apr 2009	Publish 2 nd Budget Committee Meeting Notice (ORS 294.401)
20 Apr 2009	Proposed Budget Available (ORS 294.401 (6), (8))
7 May 2009	Budget Committee Meets (ORS 294.401)
7 May 2009	Budget Committee Approves Budget (ORS 294.40(6))
20 May 2009	Publish Budget Summary & Hearing Notice (ORS 294.416)
4 Jun 2009	Budget Hearing Held (ORS 294.430)
4 Jun 2009	Budget Adopted, Appropriations Made, Taxes Declared and Categorized (ORS 294.435)
15 Jul 2009	Taxes Submitted to County Assessor: 2 Copies of LB-50, 2 copies of Resolutions (ORS 294.555)
30 Sep 2009	Copy of Budget Sent to County Clerk (ORS 310.060 (7))