

# Calapooia Watershed Council

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*Mission: Providing opportunities for membership to cooperate in promoting the health of the watershed and its communities.*

## Calapooia Watershed Council Meeting Minutes

Calapooia Watershed Council (CWC) Board of Directors and Council members held their monthly meeting at the Brownsville Library, Brownsville, Oregon, on January 13, 2009 beginning at 7:00 p.m.

Present at the meeting were the following members of the Board of Directors:

Bud Baumgartner	Roger Ruckert
Frank Lamb	John Perry
Mark Running	Connie Burdick
Dave Furtwangler	Dee Swayze

Absent from the meetings were the following members of the Board of Directors:

Matthew Fiorito

A quorum (8) was established for this informational meeting.

Also present at the meeting were:

Tara Davis	Trent Carmichael	Chris Bailey
Pamela Archer	Carla Gerber	Karen Hans
Lance Gatchell	Eric Gerber	Michael Kinkebiel
Desiree Tullos	Jim Wagner	John Joiner
Cara Walter	Mandy Cole	
Jack Zunka	Heather Slocum	

On behalf of the CWC Secretary, contracted Program Assistant, Pamela Archer, recorded the minutes.

### **AGENDA ITEM: Introductions, Announcements**

Tara Davis announced that Lance Gatchell was resigning from the CWC Board and thanked him for his service and technical assistance on the Reach 2 and culvert replacement projects. Lance has agreed to continue participating on the Projects Committee team.

Chris Bailey also announced that she was taking a new position with the City of Albany and would no longer be the Water Quality supervisor. She will still be involved in CWC-Albany floodplain assessment projects, however.

### **AGENDA ITEM: Public Comment/Board of Directors Comment**

#### **DISCUSSION:**

None.

### **AGENDA ITEM: Approve December 2009 meeting minutes**

Corrections: none

**Decision: Minutes approved**

## **Presentation: Desiree Tullos, OSU Assistant Professor, Brownsville Dam Removal: Biophysical and Socioeconomic Monitoring**

Presentation, Photo Points, Data, and more are available at:

[http://rivers.bee.oregonstate.edu/Brownsville\\_Dam\\_Removal.html](http://rivers.bee.oregonstate.edu/Brownsville_Dam_Removal.html)

### Socioeconomic Monitoring Study

Objectives:

- Document extent, magnitude, and drivers of changes in Calapooia with dam removal
- Provide foundation for long term projections in Calapooia
- Analyze and propose social, economic, and environmental impact monitoring for dam removal

Monitoring and analyzing socioeconomic information tests our ability to detect the effects of dam removal. NOAA was interested in the cost of replacing recreational opportunities in small communities. We found that the cost of going to another swimming hole was between \$0.80 and \$4.15 per trip, not including time.

The uniqueness of the Brownsville project cannot be over-emphasized. Generally, most dam removals are government regulated, top-down management events. This project was driven by the community, and having a community based project was very important in this process.

### Biophysical Monitoring

Channel migration and bar formation

- Used historical photographs to determine channel migration, bar formation
- Surveyed annually from 2007 onward in August/September
- Used photopoints for monitoring to determine visual changes
- Upstream of the dam in the reservoir
  - The dominant channel and gravel bar migrated.
  - Where the gravel bar existed in 2007 is now a backwater pool.
  - Approximately 39% of sediment was removed, mostly in first year after removal. (7212 cubic yards)
- Downstream of the dam
  - There was immediate gravel deposition after removal.
  - After one year, gravel scoured out to form a mid-channel bar.
  - Important to note that there were not any big bank failures or erosion
  - There were limited amounts of lateral channel changes downstream.
  - The “signal” of the dam removal is only present for a short portion of the river (i.e. signal is not present near Pioneer Park).

Sedimentation

- Percent of fine sediments present on riffles and bars:
  - After dam removal, there was a big reduction in fine sediments
  - After two years, some fines are present again, but amounts are stabilizing at a lower percent.
- There was a spike in the amount of gravel and sand downstream of dam, which came from reservoir.
- Not a lot of change in upstream bar areas, although the location of the upstream bar changed.
- Downstream of the dam removal, there are more sediments and bar areas. This reflects a more dynamic stream bed with the potential to create habitat through riffles and gravel bars.
- The removal has changed channel units (e.g. pool, riffle, glide), and the area below the former dam now has more diverse channel organization with the formation of pools. In short, the dam removal increased habitat diversity.
- Overall, there were minor downstream impacts and no increase bank erosion or flood risk.

Macroinvertebrates

- Don't have 2009 data from macroinvertebrates yet.

### Upcoming research

Determining and predicting sediment changes after dam removals

- Will develop a model using a one dimensional profile or side view of the channel. Starting with pre-dam conditions, we will try to predict how sediment will be eroded, where it will go, and how long it will take. We anticipate a general pattern of erosion above the dam and accumulation below the dam.
- Will also develop a two dimensional model to look at sediment changes to determine if downstream pools filling up with sediment (using mean maximum residual pool depth and change in % sediment size class).

Drivers of Dam removal decision making

- Investigate why one community embraces dam removal while another may not
- Examine the major drivers in dam removal decisions
- Explore theories to explain patterns in dam removal rationale (Environmental degradation/relationship with economy)

### Overall Project Impacts

- 3 publications accepted or in review
- 3 more publications in preparation.
- Group is working on dam removal monitoring guide.
- 10 total students supported.
- Installed flow monitor on Calapooia River—haven't had Calapooia data before!!
- River engineering and restoration web site on Brownsville dam removal/effectiveness monitoring [http://rivers.bee.oregonstate.edu/Brownsville\\_Dam\\_Removal.html](http://rivers.bee.oregonstate.edu/Brownsville_Dam_Removal.html)
- Brownsville system is a good representation of gravel systems with non-cohesive sediments typical of west coast systems.

### **AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—*Insurance/benefits for employees***

The last management committee meeting was on Monday, January 10. The council is looking into providing benefits for employees. We will be doing more research on potential plans. Some options will require more administration and staff time than others. We will provide another update soon.

### **AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—*Scope of Work for Denise Hoffert-Hay***

Scope of work for contracted project manager Denise Hoffert-Hay open is for discussion. The management committee recommends this SOW be approved based on tasks and amounts listed. Note: A-D are tasks that have already been completed. The council is still awaiting NOAA ORI funding.

**Decision: No objections, SOW approved**

### **AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—*Sodom Project***

A memorandum of understanding (MOU) is being drafted between Oregon Parks and Recreation Department (OPRD) and CWC. The CWC attorney is still in the process of reviewing the MOU. River Design Group is required by new state law to have a matching insurance policy to the state of OR. This has implications for greater state policy changes.

The project is still moving forward with continued outreach to Sodom landowners. A letter will be sent to landowners explaining the project's timeline and provide another opportunity for concerned folks to contact the council. No additional formal landowner outreach meetings are currently planned; the council has made multiple efforts already.

**AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—Reach 2**

Reach 2 is now in the design phase with project manager Tim Otis from Cascade Earth Sciences. The council is in discussions with landowners along reach two areas to gain permission to access areas. Neighbors are being helpful in this area. There will be a kickoff Reach 2 meeting on Feb 9<sup>th</sup> from 7-9 pm at Brownsville library. The council has invited landowners from the whole length of reach 2. The council will also be working with Linn County to address concerns about bridge infrastructure.

**AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—Reach 3**

Pamela Archer started permits for all of the landowners using 90% RDG design plans and project narratives as provided by River Design Group. Permits will be applied for by landowner. Some of the projects have become more complex over time, and the council may have to reassess the project, potentially scaling some elements back, depending on total funding. Henderson Land Services will be providing the council with w Scope of Work and budget in the near future.

**AGENDA ITEM: Update on Recent Management Committee Meeting Discussions and Recommendations for Action—*Fantastic News about the Lower Calapooia!***

Tara has had some very good meetings with City of Albany staff and the Greenbelt Land Trust. Everyone agreed to have an assessment and restoration strategy completed for the area of North Albany, mainstem Willamette, and the lower 2-3 miles of Calapooia. They want a project implementation plan, similar to what was provided by the Middle Reach Assessment. The City of Albany, Parks and Recreation Department, Greenbelt Land Trust, and Meyer Memorial Trust will likely provide funding and/or match to find a consultant group in next 1-2 months.

**AGENDA ITEM: February Open House Discussion**

February Open House format will be less formal, with finger food and other munchies. We aren't sure how many will be attending, normally we have around 50 guests, but we will be inviting Sodom and Courtney Creek Areas this time, too. The open house will start at 6:30.

**OPEN DISCUSSION:**

The meeting was adjourned at approximately 9:00 p.m. The next Calapooia board meeting will be our Annual OPEN HOUSE!!!! February 10<sup>th</sup>, from 6:30-8:30 pm at the First Baptist Church of Brownsville on Seven Mile Lane.

**READ AND APPROVED by the Board of Directors on \_\_\_\_\_, 2010**

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Secretary