

CARSON WATER SUBCONSERVANCY DISTRICT
BOARD OF DIRECTORS MEETING

October 21, 2015, 6:30 P.M.

Minutes

Directors present:

Karen Abowd, Vice Chairman
Don Frensdorff
Doug Johnson
Mary Rawson
Chuck Roberts
Ernie Schank
Fred Stodieck

Directors not present:

Brad Bonkowski
Carl Erquiaga
Ray Fierro, Treasurer
Don Jardine
Greg Lynn, Chairman
Austin Osborne, Storey County representative
Barry Penzel

Staff present:

George Benesch, Legal Counsel
Brenda Hunt, Watershed Program Manager
Edwin James, General Manager
Toni Leffler, Administrative Assistant/Secretary to the Board
Debbie Neddenriep, Environmental Specialist
Courtney Walker, Watershed Program Specialist

Also present:

Rob Anderson, R.O. Anderson Engineering
Mitch Blum, HDR Engineering
Jim Hilton, South Tahoe PUD
Erik Nilssen, Douglas County Community Development

In Chairman Lynn's absence, Vice Chairman Abowd called the meeting to order at 6:38 p.m. in the Carson Valley Country Club, 1029 Riverview, Drive, Gardnerville, NV. The CWSD/Alpine County Joint Powers Board was convened. Roll call was taken and a quorum was determined to be present. The Pledge of Allegiance was lead by Director Abowd.

Item #5 - Approval of Agenda. Mr. James noted that Items #13 and #14 would be heard before Items #11 and #12 to allow time for Rob Anderson to retrieve a projection screen from his office. *Director Schank made the motion to approve the agenda as rearranged. The motion was seconded by Director Johnson and unanimously approved by the Board.*

Item #6 - Approval of the Board Meeting Minutes from September 16, 2015. Director Stodieck made the motion to approve the Minutes of the Board Meeting on September 16, 2015. The motion was seconded by Director Schank and unanimously approved by the Board.

Item #7 - Public Comment. None

CONSENT AGENDA

Item #8 - Approval of Treasurer's Report for September 2015.

Item #9 - Payment of Bills for September 2015.

Item #10 - Discussion for possible action regarding ratification of the General Manager signing an agreement with HDR Engineering to develop inundation flood maps for the Carson River.

Director Johnson made the motion to approve the consent agenda items #8-10. The motion was seconded by Director Rawson and unanimously approved by the Board.

****END OF CONSENT AGENDA****

Item #13 - Discussion and possible action regarding an update on the CRC meeting on October 21, 2015. Brenda Hunt reported that the Carson River Coalition (CRC) had a large group meeting earlier in the day with guest speaker Daniel Beard, former Commissioner for the US Bureau of Reclamation (USBR). There were 30-40 people in attendance. EPA did not give a presentation on the Mercury Site. There were great updates on projects/events from participants. There were quite a few new faces in the group, including several folks with the Nevada Fish & Game, a new person with the National Weather Service, the new AmeriCorps member with Alpine Watershed Group, an AmeriCorps member with the US Forest Service, Alan Welsh with the Carson City Open Space Committee, and several new Carson City residents. Ms. Hunt gave presentations on Watershed Literacy Survey and Low Impact Development (LID) Mr. James gave a drought update and told about the State Drought Forums.

No action was required on this item; receive and file.

Item #14 - Discussion for possible action regarding hiring Still Waters Consultants to review the counties' floodplain ordinances and provide possible mitigation measures. Ms. Hunt explained the draft Scope of Work for Still Water Consultants to do floodplain ordinance and mitigation measures updates is in the Board package. The scope will address mitigation measures now since grant funding ends on June 30, 2015, and the next grant will work with the various counties on ordinances. Director Stodieck asked if there is a deadline for FEMA mapping. Mr. James explained that the model has to be done first and the mapping will come later. After modeling is done, he and Mitch Blum will go to the various counties to explain the process.

Director Abowd asked what kind of changes may be needed for the ordinances. Ms. Hunt responded that it could determine how often we update ordinances and modeling. Lyon County has issues of homes in the floodplain but not in floodway, so they will need to have mitigation measures for the floodplain.

Director Johnson made the motion to authorize staff to expend FEMA MAS #4 funds and enter into a contract with Still Waters Consultants based on hourly rate invoicing, not to exceed \$29,750 in total. The motion was seconded by Director Stodieck and unanimously approved by the Board.

Item #11 - Discussion for possible action regarding a presentation by Rob Anderson on the Smelter Creek study in Douglas County. Mr. James explained that the Smelter Creek study is part of FEMA MAS #5. Rob Anderson of R.O. Anderson Engineering explained that the watershed of Smelter Creek is 12.3 square miles encompassing the Ruhenstroth Subdivision. He reviewed the current floodplain map and a stage storage volume curve graph. The firm came up with several alternatives for flood control, the best of which would be 27.5' to spillway with a dam crest of 36'. As a result of implementing a flood control basin on BLM land above the subdivision, 166 homes would be removed from the floodplain. Of the four alternatives they came up with, the least expensive alternative is Alternative 4 at \$2.5 million as compared with \$3.17 million for Alternative 3. FEMA could fund the project through Federal Hazard Mitigation Grant. Smelter Creek was the only creek not studied in FEMA's 2010 restudy. Mr. Anderson did a Benefit/Cost Assessment. Public match could be derived from local assessment or a flood control district. The match for Alternative 4 would be \$637,500 as compared to Alternative 3 at \$792,250. FEMA is looking for projects which have recharge benefit, so this project has a good chance of being funded.

No action was required on this item; receive and file.

Item #12 - Discussion for possible action regarding a presentation by HDR Engineering on the preliminary findings of the new floodplain model for the Carson River in Carson Valley Mitch Blum of HDR Engineering explained that this is multi-state, multi-county jurisdiction but the water does not follow jurisdictional boundaries. Development in one area can impact another regardless of what county it's in. Changes happen in storage, stage, and timing. There is a need for better mapping. Most hydrology and mapping throughout the Carson River was done in the 1980s with coarse topography and didn't include the two largest events of record so it is very outdated. The restudy in Lyon County was done in 1992 with the DFRIM (updating digital data) being done in 2009.

The current mapping is inconsistent throughout the counties, and it is difficult to manage a floodplain that way. The study area for MAS 1 is Lyon County, for MAS 2 is Carson City, for MAS 3 is Douglas County/Alpine County Modeling, and for MAS 4 is Douglas County/Alpine County Mapping. These studies need to go through FEMA's 90-day public review process. MAS 1 and 2 have been submitted and accepted by FEMA but it's up to them when they want to initiate the 90-day review process before the modeling/maps will be made public. Carson Valley has unique flood dynamics with a shallow dispersed flow. Study of this area was split into two parts because of the complexity and size of model. The process has been held up because of using the Army Corps of Engineers' model. HDR has been a Beta tester of the product since 2013. Public release of the model is anticipated in December of 2015. Then the mapping phase is anticipated to begin in the summer of 2016.

Mr. Blum explained the methodology used to create the modeling. Traditional studies are done in steady-state where the flow is measured in an instant in time with all sections having the same

flow. This method does not look at timing or flow changes. The model we are using is an unsteady state model which considers changes in peak flow, volume, and base flood elevations.

The mapping portion provides a new way to look at mapping. Instead of a static map, this is dynamic. This will cut down on costs and time for any new project. We can look at depth, water surface elevation, velocity, inundation boundary, flow (1D only) depth velocity, arrival time, recession, duration, and percent time inundated. Web imagery is built in so can bring in GIS data to eliminate the need for purchased software.

No action was required on this item; receive and file.

Item #15 - Staff Reports

General Manager - Mr. James reported: 1) We submitted a 319 grant proposal on behalf of Douglas County on the design of the Virginia/Rocky Diversion project and received about 2/3 of the amount of funds for which we asked. The Washoe Tribe, the golf course, ranchers/farmers, Douglas County, and CWSD representatives will meet to discuss how we can pay for the remaining 1/3 of the funding. We will need consensus on how to proceed or the project won't go forward. 2) Carson Valley Conservation District (CVCD) and Dayton Valley Conservation District (DVCD) received some funding from the Carson Truckee Water Conservation District for clearing and snagging funding Mr. James is also working CVCD to request that the State Interim Financing Committee provide funds for the clearing and snagging program. 3) Mr. James thanked Director Stodieck for his help with opening the gate at Lost Lakes.

Brenda Hunt reported that CWSD was approved for the majority of the NDEP 319 grant funding for the Watershed Literacy that we requested.

Legal –Mr. Benesch had nothing in particular to report.

Correspondence – As included in the Board package and handed out.

Item #16 - Directors' Reports

There were no director reports but everyone thanked staff for setting up the Mud Lake tour with Bently Agrowdynamics and the dinner at the Carson Valley Country Club prior to this meeting.

Item #17 - Public Comment. None

There being no further business to come before the Board, Director Stodieck made the motion to adjourn, seconded by Director Rawson and unanimously approved by the Board. The meeting was adjourned at 7:54 p.m.

Respectfully submitted,

Toni Leffler
Secretary