



**Glendale Water Supply Improvement Project
Tuesday, April 28th, 2005 at 2:00 – 3:30 p.m.**

**Truckee Meadows Water Authority, Tahoe Room,
115 Corporate Blvd., Reno**

Attendees:

Jay Kidder
Mike Wilkin
Richard Duncan
Andy Hummel
Erik Ringelberg
Ron Penrose
Marlene Olsen

Brad Hall
Elisa Maser
Margie Caisley
Kim Tisdale
Debbie Shosteck
Lillian Baca James
Holly Wilson
Mauricia Baca

Welcome

The meeting commenced at 2:00 p.m. **Elisa Maser** welcomed the group, and the group introduced themselves.

Project Update

Ron Penrose Provided a project update regarding group progress and funding for the project.

Discussion of Consensus Paper

Mike Wilkin stated that conceptually the plan that has been shown for the last several months in individual and group meetings. The concept has been refined through feed back, and there have been new features added that enhance the project. Mike discussed the project plan view, and described it features to the group. A new feature mentioned is a sediment ejector, a subsurface structure at the bottom of the invert channel that will capture sediment that would otherwise be traveling down into the channel, and ejects it back into the main river channel, where it is put back on a conveyor and put back in downstream. **Ron Penrose** stated that it is meant to capture intake channel sediment (to the WTP), and will eliminate having to put equipment into the river to remove sediment like is currently done at the Chalk Bluff Water Treatment Plant.

There will be concrete to facilitate scouring, and the diversion will only operate at high flows, and will automatically be controlled by river elevation.

Kim Tisdale asked if it is a mechanical gate. **Mike Wilkin** responded that it is a 14 inch pipe, and the mechanical portion is along the gate and pipeline, and not in the water. He

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also stated that May to early June is the only time that this will be operational because it is when the river will have a high enough natural velocity. High turbidity events still will not produce the same velocity.

Erik Ringelberg questioned whether there would be a higher profile by the mass rocks. **Mike Wilkin** responded that it will be a lower profile, and the rocks will be in concrete or loose fill. Mike stated that the structural chute and pool section needs to be permanent, but they would like to maintain natural appearance. **Erik Ringelberg** stated that it would seem that maintenance after a 100 year event would be pretty simple. Mike stated that structurally we are trying to maintain integrity from the tow to the top of the slope.

Mauricia Baca asked if the exit point of the ejector is not visible and safe. Mike responded yes, it will not be visible and it will be safe.

Kim Tisdale asked if the sediment ejector been used before. **Brad Hall** responded yes, that it is in operation at bed load measurement facilities. He continued that they have been installed for fifty years or so, and typically so with rivers that have a tremendous sediment load. They have been used on some streams in Oregon and Italy. Brad stated that he has been to the Italy seen it function. He saw a mountain stream with course bed load, and they were capturing it and weighing it, and it looked efficient enough to be mining gravel.

Mike Wilkin continued that the concept has cross sections through the channel for chute and pool arrangements. The key features are weir exposure that will be covered with rocks to hide any exposed concrete, the sloping roughened channel up and over the top of the weir, there will be structural rocks and boulders placed along the channel both embedded and hidden, trees for restoration, a fish screening area, and an adjustable weir for correct flows for the channel.

Kim Tisdale asked if there were specification for the fish screens. Mike responded no, that they are not that far in the process yet. The screen, however, will be stainless steel. **Jay Kidder** had a sample of the fish screen material for the group.

Mike Wilkin continued that you can tell the design group has gone to a concerted effort to concede the working group recommendations, and they are now ready to build a physical model and continue fine tuning it.

Ron Penrose stated that if TMWA is functioning under extreme drought conditions, and there is a fisheries release, the water can be sent down the bypass or the weir can be raised and the release sent downstream. **Mike Wilkin** stated that there is also an automatic screen cleaner; therefore if the screens can plug and the flow will be maintained.

Please refer to the correlating power point presentation.

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Review of Draft Plan Documents for Physical Modeling

Ron Penrose stated that Northwest Hydraulic Consultants has been given the green light to start constructing a model. Ron asked **Brad Hall** when testing can begin. Brad responded close to July, and that they will be ready to demonstrate in August. There will be an opportunity for working group to visit the modeling process, but they will videotape the process for the working group to get a feel for what is being done in the modeling process. Brad stated that they would be more than happy to take guests to the lab, get wet, and let them see it works. The normal approach has been videoing since not everyone has the resources to get to Vancouver.

Marlene Olsen questioned how long the testing process would take. **Brad Hall** responded the model needs to be refined, there will be a number of variations, and typically for a project of this scale they will require four to six months, and they will provide interim reports. **Ron Penrose** stated that he was looking forward to the model, and will report back to the working group with results as need be. Ron also thanked Mike, Brad, Margie, and Jay; he stated they have put a lot of effort in and it shows.

The design team requests that comments regarding the consensus paper should be given to Ron Penrose as soon as possible. Ron stated that he would like to see sign-offs on the consensus paper, but it can be done in different ways if need be.

The Fish and Wildlife tour date will be May 24th, the tour will meet at Truckee Meadows Water Authority, head down to Derby Dam, and the tour may even go further down stream. Ron Penrose told the group that they will be dedicating the entire day to the tour, they will take box lunches, and work our way down stream.

Ron Penrose asked if the group felt it was necessary to schedule another working group meeting. **Elisa Maser** stated that if everyone is comfortable, and we get comments back on the consensus paper, then the group does not need to meet again; however, if no one responds the group will need to meet again.

Adjournment

The meeting adjourned at 3:30 p.m.