

Glen Canyon Adaptive Management Work Group Meeting

Conducting: Michael Gabaldon, Secretary's Designee

Facilitator: Mary Orton

Date: August 9, 2004

Convened: 10:05 a.m.

Committee Members:

D. Larry Anderson, UDWR
Darryl Beckmann, USBR
Amy Heuslein, BIA
Pamela Hyde, Grand Canyon Wildlands Council
Loretta Jackson, Hualapai Tribe
Leslie James, CREDA
Phillip Lehr, Colo. River Commission/NV
Clayton Palmer, WAPA

Andre Potochnik, Grand Canyon River Guides
Ted Rampton, UAMPS
Nikolai Ramsey, Grand Canyon Trust
Mark Steffen, Federation of Fly Fishers
Bruce Taubert, AGFD
Bill Werner, ADWR
Gerald Zimmerman, CRB/CA
VACANT, Kaibab Band of Paiute Indians
VACANT, USFWS

Committee Members Absent:

Joe Alston, NPS
Robert Begay, Navajo Nation
John R. D'Antonio, State of New Mexico
Arden Kucate, Pueblo of Zuni

Rod Kuharich, State of Colorado
Leigh Kuwanwisiwma, The Hopi Tribe
John Shields, WY State Engineers Office

Alternates Present:

Tim Begay
Jeffrey Cross
Don Ostler
Don Ostler
Sam Spiller
Mike Yeatts
D. Randolph Seaholm

For:

Robert Begay, Navajo Nation
Joe Alston, NPS
John Shields, WY State Engineers Office
John R. D'Antonio, NM Interstate Stream Comm.
State Supervisor, USFWS
Leigh Kuwanwisiwma, The Hopi Tribe
Rod Kuharich, State of Colorado

Interested Persons:

Mary Barger, WAPA
Emma Benenati, NPS
Mike Berry, USBR
Gary Burton, WAPA
Stacey Carroll, USBR
Holly Cheong, SNWA
Kerry Christensen, Hualapai Tribe
Lew Coggins, USGS/GCMRC
Bill Davis, CREDA
Kurt Dongoske, CREDA
Helen Fairley, USGS/GCMRC
Denny Fenn, USGS/GCMRC
Lisa Force, Grand Canyon Trust
Dave and Pamela Garrett, M³Research
Christopher Harris, CRB/CA
David Haskell, Living Rivers
Cisney Havatone, Hualapai Tribe
Norm Henderson, NPS
Chris Kincaid, NPS/GLCA

Glen Knowles, USFWS
Dennis Kubly, USBR
Paul Li, IEDA
Mike Liszewski, USGS/GCMRC
Jeff Lovich, USGS/GCMRC
Ken McMullen, NPS/GRCA
Ted Melis, USGS/GCMRC
Anthony Miller, Colo. River Commission/NV
Mary Orton, The Mary Orton Company
Bill Persons, AGFD
Randall Peterson, USBR
Ken Rice, USBR/Glen Canyon Dam
Tom Ryan, USBR
Larry Stevens, Grand Canyon Wildlands Council
Chris Updike, NAU
Brad Warren, WAPA/SLC
Arch Wells, BIA
Barry Wirth, USBR

Meeting Recorder: Linda Whetton, USBR

Introductions and Administrative Items. Michael Gabaldon welcomed the members, alternates, and general public. Attendance sheets (**Attachment 1**) were distributed and a quorum established. He introduced Don Ostler, alternate for the states of Wyoming and New Mexico (replacing Wayne Cook), and Bill Werner from the Arizona Department of Water Resources (replacing Perri Benemelis).

Approval of Meeting Minutes. Pending a few minor changes and without objection, the minutes were approved.

Legislative Updates. Randy Peterson reported that the Energy Bill was passed by the House restating HR 6. The Senate tried to reach some terms of agreement on moving forward with an energy bill but have been unable to do so to date. There have been a number of bills introduced regarding the Endangered Species Act that may affect recovery plans and critical habitat, and also some bills that might affect the implementation of the ESA. He encouraged the AMWG members to seek out more information on those bills.

Old Business.

1. **Minority Report.** Mike reported receipt of a minority report given to him at the AMWG Retreat. He is in the process of combining that report with the March 2004 meeting recommendations and forwarding to the Secretary of the Interior. He said a special provision was made for dealing with the minority report because the AMP had never dealt with one in the past. Asst. Secretary Bennett Raley advised that future minority reports should be submitted within 15-30 days following an AMWG meeting. Secretary Norton, through Mr. Raley, has asked the DOI agencies to review the minority report and provide a recommendation to her. Bruce Taubert asked for more clarification on what a minority report is and how it should be used. Mary Orton read the following from the AMWG Operating Procedures: "The views of any dissenting member or minority group shall be transmitted to the Secretary along with the majority recommendation." Mike added that the authors of the minority report went into great detail explaining their position and advised that this avenue for making recommendations to the Secretary is open to all AMWG members.

2. **Voting/Motions.** Mike said at the last AMWG meeting there were a lot of questions as to who voted for or against certain motions and that one of the things being considered is having some type of format that would identify which individuals voted for or against a motion. He said the AMWG Operating Procedures and Robert's Rules of Order don't address a "roll call" vote. He asked the members if they wanted to keep a record on how they vote or keep it as it is (raise hands). Pam Hyde said that since time is given to allotted for members to explain their position for voting no or abstaining, she didn't feel a change was necessary. Mike said normally only the comments from those members who abstained from voting are captured in the meeting minutes. Mary Orton said that because the Operating Procedures state that dissenting members may submit a minority report, she thought the only reason the AMWG might want to have a roll call is to know which members were eligible to send in a minority report. However, that is contrary to the Operating Procedures and she said that would necessitate a change. Mike advised that if any of the members had more concerns to catch him during a break.

3. **Tribal Funding.** Mike advised that the DOI agencies were able to secure the FY04 tribal funding and are in the process of developing a procedure to get future funds secured at the start of every fiscal year.

New Business. Nothing to report at this time.

AMWG Retreat Update. Mike reported the retreat was held on June 28-29 and was well attended by the members. He felt it was a very good retreat and a lot of issues were raised. He directed the members to review the notes from the Retreat Summary (**Attachment 2**). He said one item not captured in the minutes was a discussion on how things are prioritized to ensure things are done in the order that the AMWG wants them to get done. As such, he advised that tomorrow's meeting would focus primarily on establishing those priorities. The items that received the most attention were the roles and responsibilities of the AMWG, TWG,

GCMRC, and SA. He recommended establishing an ad hoc group to further define those roles and responsibilities and then have that group bring suggestions to the next meeting for more discussion. Mike said he had some people in mind to serve on the group but wanted to talk to them first before asking for volunteers.

ACTION ITEM: Comments on AMWG Retreat Summary are due to Mary Orton by August 23, 2004.

Mike said there were some items from the AMWG Retreat that he felt could be implemented fairly quickly:

- Updates on Recommendations to the Secretary. Mike said he would provide regular updates to the AMWG on recommendations made to the Secretary as they move through the various review levels in the Washington Office. He has asked Lilas Lindell (Denver Office) to be involved in that tracking process and said monthly updates would be sent to the AMWG via electronic mail.
- Status of AMWG Meetings. Mike asked if the AMWG felt additional meetings were needed in addition to the two they already have scheduled for the year. Pam Hyde said she would like to have a better understanding of future agenda items in order to help her make a better estimate for how often the AMWG needs to meet. Jeff Cross said he felt that one additional meeting tied to the development of the work plan by GCMRC would be beneficial because the budget discussions often require more time. Bruce Taubert said that attending five to six meetings a year could significantly impact his ability to attend them. Mike said he feels an additional meeting would be beneficial to the program and will schedule accordingly. If the members feel more meetings are needed, it will be re-addressed at a later date.
- Membership Evaluation. Mike reported that there hasn't been any new information from the Secretary on how the AMWG membership is established. If any changes are made in determining how members are selected to serve on FACA committees, he will inform the AMWG.
- Better AMWG & TWG Communication. Mike said the budget discussions have demonstrated that there needs to be more communication between the AMWG and TWG and wondered if the TWG members were briefing their AMWG members on budget issues. Bruce Taubert said that having a better understanding of the program priorities would help the budget process go more smoothly for both groups. Nikolai Ramsey concurred that there needs to be better communication but feels the AMWG often revisits issues of key concern. He feels some ground rules may need to be developed whereby the AMWG would have to abide by the work done at the TWG level.
- Secretary's Designee's Involvement with GCMRC. Mike said that he will begin visiting the GCMRC on a more regular basis.

Mike complimented Mary on the good job she did reporting the results from the retreat. He said Bennett Raley was pleased to have attended and wants to get further involved with what the AMWG does.

Public Comment. David Haskell announced he is the newly appointed policy director for Living Rivers and distributed copies of a letter from their organization (**Attachment 3**) to Mr. Gabaldon about progress being made in the Adaptive Management Program. Living Rivers believes the AMWG has additional authorities to help them do their job and wants the AMWG to seriously consider doing a supplemental EIS or making a revision to the ROD in order to achieve the goals of the program. They also believe the AMWG needs to take a closer look at the Strategic Plan and better articulate what success looks like in terms of the condition of the resource. Living Rivers will provide comments on the Strategic Plan at a later date.

Technical Work Group (TWG) Chairman Update. Norm Henderson provided an update of the assignments the TWG has been working on for the past few months via a PowerPoint presentation (**Attachment 4a**). He also provided an update on the timeline of TWG assignments (**Attachment 4b**).

Loretta Jackson asked how the Programmatic Agreement was addressed by the TWG. She stated the PA group is comprised of tribes and federal agencies who entered into an agreement regarding the cultural resources pertaining to the Glen Canyon Dam. Consultation occurs between those parties at a higher level or a separate level outside of the AMP but is also brought into the AMP. She didn't realize the TWG had the authority to address PA concerns and wanted clarification. Norm said the TWG isn't making decisions on the PA but are rather getting communication from Reclamation on the timelines for various components of the PA so they can report on the progress and can more effectively implement that in the budget process.

Public Outreach Ad Hoc Group (POAHG) Update. Pam Hyde said the POAHG has met several times and has started working on some key issues. She gave a PowerPoint presentation (**Attachment 5a**). Amy Heuslein (co-chair) referenced the POAHG Report (**Attachment 5b**) and directed the members to look at the flow chart for what products would be released.

Comments:

- Are we comfortable with the POAHG's composition (missing tribes, using public information officers) to give them the responsibility in preparing press releases/products? (Taubert)
- What is the definition of an emergency? (Dongoske)
- It would be important to have each one of the interest groups represented on the POAHG and someone who will actively participate. (Seaholm)
- The Hopi Tribe and other tribes see a broader need for educational products. The AMWG needs to consider because it has some budget implications. (Yeatts)
- Rather than doing a newsletter, improve the USBR AMP website, do a faster Google search, and put more money into refining the website for the purpose of doing public outreach. (Haskell)
- Make sure the web site is user friendly to journalists as well the general public. (Spiller)

Motion: Accept all recommended action items except for #2. Plus: When there is a media release on the AMP, the POAHG to determine an appropriate AMWG response; #3: Use news sheets.
Motion seconded.

Motion passed by consensus.

Treatment Plan Updates. Mike Berry addressed three issues related to the cultural program: (1) the treatment plan for Glen Canyon Reach, (2) the treatment plan for the Grand Canyon, and (3) a couple of issues to do with the Glen Canyon Programmatic Agreement (**Attachment 6**). He stated that WAPA, CREDA, and the BIA have requested to become signatories to the PA. As such, Reclamation will be sending a letter this week to all current signatories requesting their comments. If any signatories oppose the inclusion of any of the three organizations, dispute resolution procedures as specified in the PA will be followed. Reclamation will wait 30 days for responses before expediting the process. He wants the PA membership issue resolved before another PA meeting is scheduled.

Clayton Palmer said that in 1998 Reclamation received a request from WAPA indicating their desire to become a PA signatory. WAPA provided letters of support from the Park Service and the SHPO. Since then, nothing has happened. Clayton said that WAPA has been involved in the PA meetings despite not being a formal signatory. He doesn't see a need for any further procedures. Mike responded that Reclamation anticipates there may be some signatories who may oppose WAPA's presence in the PA. As such, the PA has laid out a process for addressing those concerns. Clayton believes the procedures have already been followed. Leslie James said that if there is an objection and the parties move to a dispute resolution process, the entities petitioning to be signatories are not signatories and therefore they would be

cut out of the dispute resolution process. She asked if the PA has a specific obligation for responsibility of the signatories to determine who else may become a signatory or if it is Reclamation's responsibility. Mike reaffirmed that Reclamation is the lead agency and after the documentation goes to the Council, they will make their decision based on the Council's advice and any other deliberations needed.

Science Advisors' Update: Dave Garrett said his presentation would focus on a review the Science Advisors recently completed on some AMP documents. Even though some of the documents haven't been completed, the science advisors wanted to provide some general guidance to the writers on issues of plan completeness, appropriate science being done, etc. Dave went through the individual recommendations (**Attachment 7a**). He said the science advisors are trying to be more responsive to being involved with the TWG and GCMRC as programs and plans are being prepared. Dave gave a PowerPoint Presentation (**Attachment 7b**).

Nikolai Ramsey stated that things need to be better systemized and all plans need to be well coordinated with other GCMRC plans and the AMP Strategic Plan. Larry Stevens asked if the science advisors have thought about the importance of managing and discussing this in a NEPA system context. Dave said the science advisors would much prefer a complex ecosystem approach over a much longer term because it would provide the greatest learning model. Randy Peterson asked Dave if the AMP should design an experiment which focuses on the HBC or some riparian resources, decoupling the sediment that might serve as an overlay or suggesting not doing anything for 10-20 years until they have solved the problem or could they do those types of responses independently of an ecosystem experiment. Dave responded that when a specific block design is done, it confounds this system and it's to get the question answered. He said that by separating those two, focusing the power of the test, one might get a better ability to see the signal.

Experimental Action Update/2005 Planning. Jeff said Ted will give the first presentation summarizing the fine sediment update. Lew Coggins will provide the latest results on mechanical removal and then Jeff said he would give an overview of GCMRC's involvement in the LTEP AHG.

WY2004 Experimental Fine-Sediment Update Between Lees Ferry & Diamond Creek. Ted gave a PowerPoint presentation (**Attachment 8**).

Highlights of Winter 2004 Mechanical Removal of Non-Native Fishes from the Colorado River. Lew Coggins gave a PowerPoint presentation (**Attachment 9a**).

Bruce Taubert asked if they were going to discontinue the work in Lava Chuar to Tanner. Lew said they had originally thought about expanding the reach in hopes of providing a bigger treatment effect. He said there were two reasons why they ended up focusing this year on the original removal reach and the Lava Chuar to Tanner Reach was driven partly by logistics (had a certain number of days to do the work) and recognizing after the first year that they really got poor estimation performance with the three depletion passes. They think it's important to be able to measure the treatment effect they're putting in place. They want to know what the abundances are in those reaches. They had to discontinue the Tanner to Uncar Reach because to get four depletion passes, they run out of days for a particular trip. However, they think they can still do four depletion passes in the Tanner to Uncar Reach They are seeing fair numbers of chubs in the Lava Chuar to Tanner Reach. They're seeing fewer HBC in that lowest reach, Tanner to Uncar, than in either of the other reaches. From the treatment perspective, balancing logistics with trying to make that biggest treatment effect, they think it's important to continue doing the depletions between Lava Chuar and Tanner.

Bruce expressed concern about the money being spent and that if one section is cut, then the money should be used for other priority items. Lew said that their sampling efforts will yield fewer fish in the Lava Chuar to Tanner stretch than in the overall original reach. Lew said the thing to focus on is that in the context of a longer term experimental design, you look at this thing from blocks of treatment over time, and

they are imposing a treatment effect on non-native fish for some numbers of years. They've been doing it for two years right now. It's up to the AMP to decide how many more years to do or not to do. The attempt to go further downstream into that area where they know the natives and non-natives are interacting is to make a stronger treatment signature over time. In the context of this ecosystem, this large experiment the response is what eventual recruitment is to the HBC population rather than trying to do real process oriented research on survival or competitive predator interactions. That's not an element of this experiment as currently proposed. They're hoping to impose the largest treatment signature they can and basically going down between Lava Chuar and Tanner for four days of sampling. It makes sense to them to try and expand the treatment effect by knocking the numbers of non-natives down in that area.

Effects of Fluctuating Flows from Glen Canyon Dam on the Early Life Stages of Rainbow Trout in the Lees's Ferry Reach. Lew said he would give a presentation (**Attachment 9b**) that was originally presented by Josh Korman at the Science Symposium to look at the effects of experimental fluctuating flows.

Agenda Update. Mike announced that the update on the GCMRC Strategic Plan would be moved to Wednesday. He also said that Clayton Palmer requested that Brad Warren give a quick update on the status of the Colorado River Basin Fund.

Status of CRSP Basin Fund. Brad Warren said he wanted to provide more information on the status of the basin fund and where it's currently at in relation to the drought. He said that Lake Powell is down over 120 feet from full right now and as far as the power pool, the water available to use for production of power is just a little over 6 maf or about 90 feet left to go in the power pool. Reclamation has been doing some modeling and there are a couple of scenarios which has given them some concern. If they get into another year like 2002 where there was only about a 25% runoff, they could get to the point where Glen Canyon generation would have to be shut down because they would hit that minimum power flow elevation. Another scenario is that if they had two more consecutive years of 50% runoff, they could be in the same situation. These are significant concerns to WAPA particularly from a standpoint of what it would do if Glen Canyon had to be shut down, not only to power customers but effects to other agencies and organizations. WAPA sets its power rates to recover the reimbursable expenses they're responsible for. They recover WAPA O&M expenses for maintaining the transmission system, Reclamation O&M expenses for maintaining the power plants, and also the annual expenses for purchased power in Wheeling which is when they have to buy transmission services to deliver electricity to customers that aren't tied directly to their grid. In times like this, when the hydrogeneration is short of our contractual commitments, they have to go to the market and purchase power to make up for what was short. Their contracts specify minimum deliveries to the customers. Also, their rates recover the investment in the powerplants and transmission system and interest on unpaid balance of those investments. They also recover the portion of federal investment of irrigation that is considered to be beyond the ability of the irrigators to repay. All revenues received from the power sales are deposited into the basin fund and out of the basin fund they pay those expenses but it also funds portions of programs, like the Adaptive Management Program, the Upper Basin RIP Program, and Salinity Control. The thing to keep in mind is that WAPA rates do not recover non-reimbursable expenses. They only recover reimbursable expenses. One way to look at that is the AMP is \$8.5M is funded from the basin fund. How that really works is that WAPA would have made a payment to Treasury for principal and interest. Because the AMP is an obligation for the taxpayers to pay, the money that would've gone from WAPA to the Treasury for that principal interest, instead goes to the AMP as a convenient way to get their funding vs. having to seek appropriations. If GCD goes off line, WAPA would be in a critical situation. We estimate that if we had to go out on the market and purchase power to make up what was lost by GCD going off line, it would be in the neighborhood of \$170 million per year. This would more than likely deplete the fund to zero. WAPA and USBR have expenses that are unavoidable. Salaries have to be paid and certain maintenance has to be done. If they looked at how much power was left at the remaining CRSP units, Flaming Gorge, Aspinall, they would have to try to recover those unavoidable expenses on that remaining generation that has the potential to price the CRSP hydropower product above the market price of power. If that were the case, it is highly probable that customers would go elsewhere while that situation was occurring to procure a resource that wasn't as expensive. It would also mean there wouldn't be money

in the basin fund to support the AMP and those other programs. The language of the GCPA permits the use of power revenues for funding this program and questioned how the AMP would be funded if power revenues were no longer available. Brad said WAPA is working with its customers and discussing options.

Clayton Palmer added there is a chance the basin fund could run out of money without the loss of Glen Canyon Dam. He felt the AMWG should consider some contingency planning and seek appropriated funds. Denny Fenn agreed with doing some contingency planning but cautioned that OMB isn't receptive to switching program funds from power revenues to appropriations. He said the AMWG needs to understand the contingencies and feels it's important to deal with the issue now and make some recommendations to the Secretary sooner rather than later.

Darry Beckmann added that it would be a fallacy to think the AMP can depend on additional appropriations. He said it will be the AMWG's responsibility to look at what they have to prioritize in a way of not necessarily keeping everything but what seeing what might have to be given up if the powerplant goes off line. There are other programs that would suffer as well.

Leslie James said that CREDA started an effort around October 2001 to try and ensure that the increased costs for the security for national, critical infrastructure facilities would be funded through appropriations. Every year they have made a pretty good run. This year they have a Senate letter signed by eleven senators indicating that those costs should be handled through appropriations. The current policy of the Bureau of Reclamation has been that those costs will be non-reimbursable, however, they have received continued push back from the agency and from OMB to make those costs, at least the portion attributable to guards and surveillance, to be reimbursable by power revenues from CRSP. They have report language in each of three years but until they can get that codified and at such time as Reclamation is pressured into changing their policy, about \$2 million a year for CRSP will hit the basin fund. She said it's important to let the delegates know that security for these facilities is a national security issue and the costs should not be borne by power customers.

Mike said this issue would be added to the next AMWG meeting agenda.

Climatic Fluctuations, Drought, and Flow in the Colorado River. Ted Melis referenced the USGS fact sheet (**Attachment 10a**) which talks about various indices that are conventionally used by people to try to figure out hydrology in various basins. The drought they're experiencing in northern Arizona particularly in Flagstaff started in the winter of 1995-96 so on a more local scale, they already have a drought occurring in the state combined with southern Utah which is already nine years old and they're hoping that one ends soon but it does lend some perspective to the Upper Basin drought which is now five years old. Ted said the El Niño signal has been well documented and published over the past 15 years by various authors but that strong teleconnection, the correlations, apply to southern California, the west coast and the lower part of the Colorado River Basin. As one moves through the basin, the signal becomes nothing but noise but NOAA is currently working on this (**Attachment 10b**) and to date no one has published anything that shows any way to predict any relationship between the onset of warming in the eastern Pacific and or if there will be a big runoff in the upper basin.

Historical Timeline for USGSExperimental Flow Planning. Jeff Lovich distributed copies of his PowerPoint presentation (**Attachment 11**) and stated his objective was to get guidance from AMWG on how GCMRC should proceed in 2005. They're ready to release contracts and make work assignments but it's not clear what they should be doing in light of the previous discussion. With that, he proceeded with his presentation. He said he would not make any recommendations until after Dennis Kubly's update on the Long Term Experimental Plan.

Humpback Chub (HBC) Comprehensive Plan Update. As chairman for the Humpback Chub Ad Hoc Group, Sam Spiller provided a brief history on the status of the HBC Plan and said it was essentially a finished product in August 2003. However, there is still some work that needs to be done on the 20+

proposals and Dennis Kubly has offered to do that work. In doing so, Dennis made some additional recommended improvements. Sam said the group didn't have time during their conference call to finish discussion on a particular issue and so they recommended that he and Dennis make the final edits. Once the edits have been made, Sam will send the plan back to the HBC AHG for comments and a final document should be ready by mid-September.

Dennis asked Sam if he wanted to speak to the conclusion of the plan and the recovery for the humpback chub because that was one of reasons they revised the document so it could go to the Fish and Wildlife Service. Sam said that if the FWS was to undertake a lower basin fish recovery implementation program, they would certainly look to it. Clayton said he feels the level of urgency with respect to the fish is the same today as it was a year ago. He hopes to have a discussion or complete a long-term experimental program that is greatly focused at improving the condition for HBC. He would still like to see a Grand Canyon recovery program and believes the HBC Plan would be a good start for the implementation of such a program.

Bruce said he senses that some people aren't as concerned today as they were a year ago. If the AMWG heeds what Reclamation is saying in terms of water available in the next two to three years, they may be in a situation that puts the HBC out of business or puts the HBC into massive reproduction in the mainstream. He feels it is critical to get a plan and advice from the scientists about how to develop scenarios of research and data gathering and whatever else is needed to benefit the chub.

Dennis responded that if the AMWG wants that kind of analysis, they have the best model they could possibly use along with the advice and counsel from Carl Walters to undertake that analysis. He said it could be integrated into the plan but it won't be likely unless the AMWG declares they want it done. The projection for the future is not on the part of this plan and the analysis has not been done. It would have to be undertaken but it could be included in this plan by October.

ADJOURNED: 5:10 p.m.

Glen Canyon Dam Adaptive Management Work Group Meeting

Conducting: Michael Gabaldon, Secretary's Designee
Facilitator: Mary Orton

Date: August 10, 2004
Convened: 8:00 a.m.

Committee Members:

D. Larry Anderson, UDWR
Darryl Beckmann, USBR
Amy Heuslein, BIA
Pamela Hyde, Grand Canyon Wildlands Council
Loretta Jackson, Hualapai Tribe
Leslie James, CREDA
Phillip Lehr, Colo. River Commission/NV
Clayton Palmer, WAPA

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Ted Rampton, UAMPS
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Mark Steffen, Federation of Fly Fishers
Bruce Taubert, AGFD
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VACANT, Kaibab Band of Paiute Indians

Committee Members Absent:

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Jonathan Damp, Pueblo of Zuni
Bill Davis, CREDA
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Helen Fairley, USGS/GCMRC
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Paul Li, IEDA
Mike Liszewski, USGS/GCMRC
Jeff Lovich, USGS/GCMRC
Ken McMullen, NPS/GRCA
Anthony Miller, Colo. River Commission/NV
Mary Orton, The Mary Orton Company
Bill Persons, AGFD
Randall Peterson, USBR
Ken Rice, USBR/Glen Canyon Dam
Tom Ryan, USBR
Barry Wirth, USBR

Meeting Recorder: Linda Whetton, USBR

Introduction: Michael Gabaldon welcomed the members, alternates, and general public. Attendance sheets were distributed and a quorum established.

Mike announced that items not addressed in yesterday's agenda would be added to tomorrow's agenda. He also recognized the presence of Steve Magnussen, the Secretary's former designee for the AMP.

Budget Development Process – Dennis Kubly said when he tried to determine how the Budget Ad Hoc Group was developed, it looked like the TWG initially developed the process, brought a recommendation to AMWG, and were directed by the AMWG to proceed. The proposal for a 2-year rolling budget by the BAHG was brought to the TWG at their May meeting and then revised through conference calls and brought back on July 1. The TWG at that time agreed to recommend the proposal to the TWG. Dennis proceeded with a Powerpoint presentation (**Attachment 12a**). Following the presentation, Dennis said the BAHG would like some guidance from the AMWG on how strict or liberal they would like the criteria to be. The BAHG had also identified seeking appropriations but the process hasn't been worked out. He distributed copies of an Excel spreadsheet (**Attachment 12b**) indicating the progress of tasks that would be accomplished.

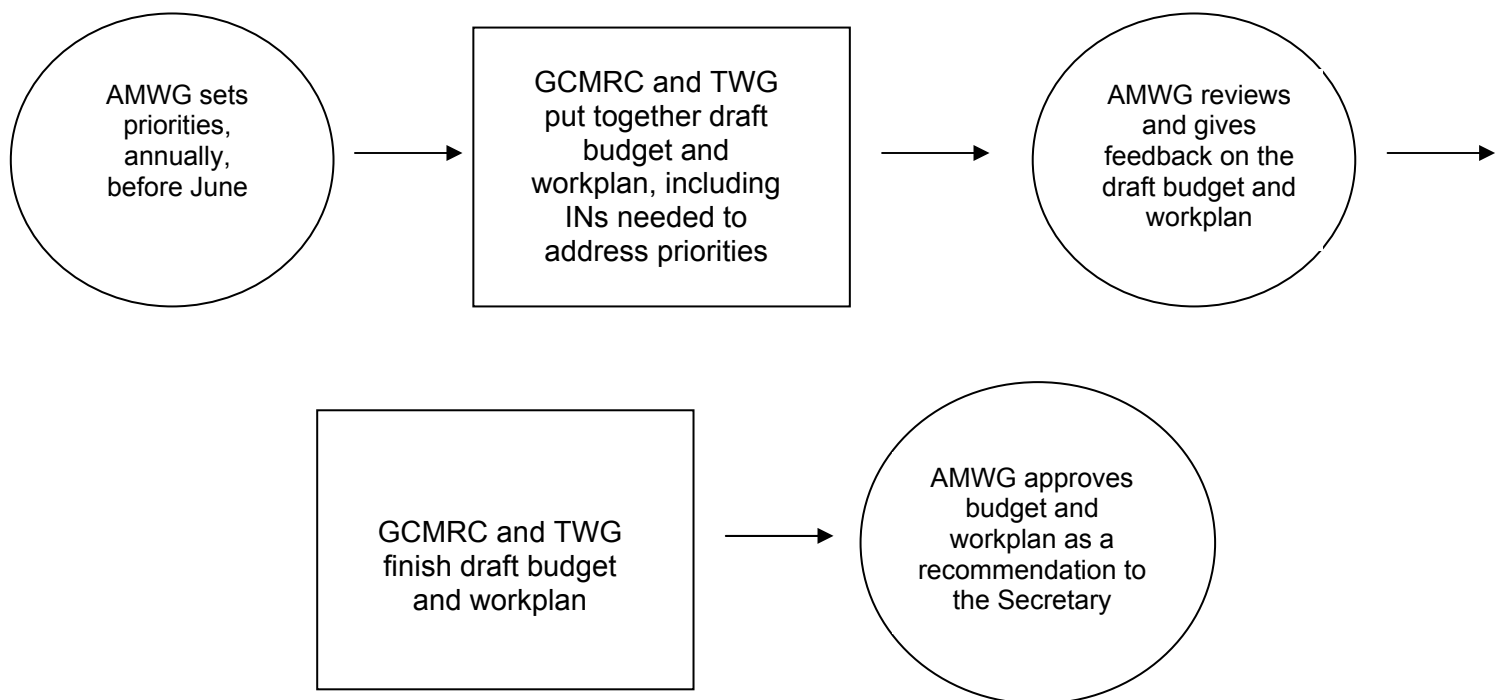
Priority Setting Workshop. Mary Orton invited the AMWG, TWG, GCMRC program managers, and PA signatories to sit at the table. She introduced Chuck Anders, president of Strategic Initiatives, and said he has 25 years experience working with complex issues in government and the private sector. He was the assistant director of the Arizona Dept. of Environmental Quality Guide for Policy and Planning and the director for the Arizona Environmental Protection Agency before it was ADEQ when it was still part of the Health Department. In 1996, he started Strategic Initiatives which is a company that specializes in using interactive technology to enhance communication and he also does environmental mediation. She reminded the members that today's workshop resulted from the AMWG retreat. The retreat attendees agreed there would be a workshop with everyone involved where priorities would be discussed and then AMWG would make the decision. Mary reminded the participants that the priorities AMWG ultimately sets will become part of the inputs to the FY06 budget process. She read the questions that had been developed for the exercise (**Attachment 13a**) and then asked Chuck to explain use of the voting machines.

The members responded to the questions. Upon completion of the workshop, the preliminary results (**Attachment 13b**) were distributed.

ACTION ITEM: AMWG members to let Mary know by Sept. 15 if they have other "numbered questions" to be added under the broad, lettered in the priority setting exercise. Send additions to mary@maryorton.com.

Continuation of Budget Development Process. Dennis Kubly said he had several questions for the AMWG: (1) Is that the clear direction that you're going to give to TWG and GCMRC? (2) Is this where it stops? He said there were questions about where in the linkage of declining importance they would cut off core monitoring or research. He said he didn't hear an answer for that question in terms of how those decisions are made or where the lines are drawn. He said it would help the TWG and GCMRC if the AMWG would give more guidance as to what they want the approach to be.

Mary asked if it made sense for the group to go back to the budget process Dennis presented earlier and stated that the major addition to the FY05 process was a 2-year cycle which may or may not be able to be implemented at the present time. She advised the AMWG they could approve the process they eventually want without actually having to implement every piece of it right now. She created a flow chart to help the members better understand the process:



Comments:

- When you have priority questions, the next step is to decide what to do with them. As an example, the priority questions are given to the GCMRC who develops a draft work plan. They then go back to the TWG or AMWG and determine if the plan reflects the right priorities. The TWG says yes or no or the AMWG says yes or no, and the plan is revised. As monitoring and research progresses and additional questions arise, then more revisions may be necessary which will affect the formulation of the next plan. What's the schedule? How many meetings does the TWG or AMWG need to have? How often does GCMRC redraft its plan based on comments from the TWG and priorities from the AMWG? It's that process that is not laid out. (Palmer)
- Maybe we have to think about additional meetings and opportunities for AMWG to be involved in the development of the work plan before the final is presented. AMWG really needs to revisit and reaffirm every year what the priorities are for the next year's work plan. I don't think they just go to GCMRC and then GCMRC develops something and goes to the TWG. I think GCMRC and TWG sit down in a 1 or 2-day meeting and talk about how to address those questions. The big change I see is an additional AMWG meeting. (Lovich)
- Maybe you add another step rather than when TWG reviews and recommends to AMWG, that AMWG processes it and gives further feedback and then it comes back to the AMWG for review and final recommendation to the Secretary. At some point we've got to trust the ad hoc group. (Beckmann)

Dennis said that once the planning documents are in place, the AMWG wouldn't need to revisit items that are already fixed components in the budget (core monitoring). With the completion of the Long Term Experimental Plan, 95% of the budget would already be complete. With the new budget process, the time preparing a work plan and budget will greatly diminish.

Clayton reaffirmed that the core monitoring piece of the budget is on a 2-year cycle but the research piece is on a 1-year cycle. As such, he feels the AMWG should revisit the research and experimental portion of the budget each year. Dennis said there isn't that kind of flexibility in the plan. Clayton said he believed an experiment needed to last long enough to pass through several hydrologic conditions. Without the

opportunity to hear what has taken place over the course of the year and be able to react, then he feels they are not doing adaptive management.

Jeff Lovich said that GCMRC would be willing to make changes insofar as they don't have to reduce the resolution of their long-term datasets. If they could increase the accuracy or increase the precision as long as they can maintain the continuous dataset that was comparable to day one, they would do it with whatever flexibility was available to them. They need to be receptive to new advances in technology and be able to adjust but they can't make a lot of compromises.

Clayton said he would like the process laid out and then the details could be assigned to the TWG. He would prefer a core monitoring program that was longer in term and didn't have to be revisited every year. However, he wants to see the core monitoring program reviewed every two years but that if changes need to be made, they can bet.

Denny Fenn said that some of the core monitoring programs could be done annually while some may be done every five years. He thinks the AMP needs to find a balance between program management and executive leadership.

**MOTION: To adopt TWG-recommended budget process, adding an annual priority-setting session by AMWG, and adding an interim step of review and feedback on the budget and workplan by AMWG before approval of the budget.
Motion approved by consensus.**

NOTE: To fully explicate the above vote, the questions raised pertaining to the five priorities are listed below:

1. Why are the humpback chub not thriving, and what can we do about it? How many humpback chub are there and how are they doing?
2. What is the best flow regime?
3. What will happen when we test or implement the TCD? How should it be operated? Are safeguards needed for management?
4. What is the impact of sediment loss and what should we do about it?
5. Which cultural resources, including TCPs, are within the APE, which should we treat, and how do we best protect them? What are the status and trends of cultural resources and what are the agents of deterioration?

GCMRC Strategic Plan. Jeff Lovich said that GCMRC is still working through the process of developing their internal strategic plan. As he mentioned last fall to the AMWG, he feels strongly that GCMRC needs to have a vision for where it is going programmatically. He distributed copies of the Draft GCMRC Strategic Plan (**Attachment 14a**) along with the Science Advisors' review of general GCD AMP planning documents (**Attachment 14b**), and gave a PowerPoint presentation (**Attachment 14c**). He requested that comments on the plan be sent to him by Sept. 15 so he could incorporate and present a final plan at the next AMWG meeting (Oct. 25-26, 2004).

Comments:

- It's a good document. I know it doesn't cover the science issue that the science advisors have but it does start to lay a foundation where we have a better understanding of how you're operating your employees. I see it as being a good directional document and is a good cornerstone for better interaction in the future. I commend you on getting this thing done. (Taubert)
- Just a quick point about the mission and vision. There is some pretty good language about using other management actions interpreting the GCPA in that way, non-native fish control and other things that we've done already, shoring up historic property sites, cultural sites, things that we might do in addition

to dam operations probably should be reflected in the strategic plan for GCMRC as well. It seems like there is more restrictive language in your plan vs. the AMP strategic plan. (Ramsey)

- You talk about your integrated science program and how it is going to be developed and what their functions are and I wonder if they will be included in the plan. Also, I have concerns how the plan will be disseminated to the Indian tribes and/or if consultation will occur with the tribes. (Jackson)

ACTION ITEM: AMWG to provide comments on the GCMRC Strategic Plan to Jeff Lovich by Sept. 15.

Core Monitoring Plan. Jeff Lovich provided a brief history of the development of the Core Monitoring Plan and then gave a PowerPoint presentation. (**Attachment 15**).

Comments:

- You had a document in place where it said that the document must have approval of the science advisors, the TWG, and AMWG. AMWG is probably the body that is going to approve and if the science advisors or TWG don't approve some concepts in it and we do, then I guess there is a trump card there. I'm not sure you want to give everyone the impression that the science advisors have to say okay, the TWG has to say okay, and the AMWG has to say okay before it is a final document. (Taubert)
- Are we going to get a sense in the draft of what the total bill for doing this would end up being? If this is something we're basically making a commitment to in the long term deal and other things may have to adjust depending on budget, is this the right scope? (Hyde)

ADJOURNED. 5:00 p.m.

Glen Canyon Adaptive Management Work Group Meeting

Conducting: Michael Gabaldon, Secretary's Designee
Facilitator: Mary Orton

Date: August 11, 2004
Convened: 7:30 a.m.

Committee Members:

Pamela Hyde, Grand Canyon Wildlands Council
Loretta Jackson, Hualapai Tribe
Leslie James, CREDA
Phillip Lehr, Colo. River Commission/NV
Clayton Palmer, WAPA
Andre Potochnik, Grand Canyon River Guides

Ted Rampton, UAMPS
Nikolai Ramsey, Grand Canyon Trust
Mark Steffen, Federation of Fly Fishers
Bruce Taubert, AGFD
Bill Werner, ADWR
VACANT, Kaibab Band of Paiute Indians

Committee Members Absent:

Joe Alston, NPS
D. Larry Anderson, UDWR
Darryl Beckmann, USBR
John R. D'Antonio, State of New Mexico

Rod Kuharich, State of Colorado
Leigh Kuwanwisiwma, The Hopi Tribe
John Shields, WY State Engineers Office
Gerald Zimmerman, CRB/CA

Alternates Present:

Tim Begay
Jeffrey Cross
Christopher Harris
Don Ostler
Don Ostler
Randall Peterson
D. Randolph Seaholm
Sam Spiller
Mike Yeatts

For:

Robert Begay, Navajo Nation
Joe Alston, NPS
Gerald Zimmerman, CRB/CA
John Shields, WY State Engineers Office
John R. D'Antonio, NM Interstate Stream Comm.
Darryl Beckmann, USBR
Rod Kuharich, State of Colorado
State Supervisor, USFWS
Leigh Kuwanwisiwma, The Hopi Tribe

Interested Persons:

Mary Barger, WAPA
Emma Benenati, NPS
Mike Berry, USBR
Gary Burton, WAPA
Stacey Carroll, USBR
Holly Cheong, SNWA
Kerry Christensen, Hualapai Tribe
Lew Coggins, USGS/GCMRC
Nancy Coulam, USBR
Jonathan Damp, Pueblo of Zuni
Bill Davis, CREDA
Kurt Dongoske, CREDA
Helen Fairley, USGS/GCMRC
Denny Fenn, USGS/GCMRC
Lisa Force, Grand Canyon Trust
Dave and Pamela Garrett, M³Research

David Haskell, Living Rivers
Cisney Havatone, Hualapai Tribe
Norm Henderson, NPS
Chris Kincaid, NPS/GLCA
Glen Knowles, USFWS
Dennis Kubly, USBR
Paul Li, IEDA
Mike Liszewski, USGS/GCMRC
Jeff Lovich, USGS/GCMRC
Ted Melis, USGS/GCMRC
Anthony Miller, Colo. River Commission/NV
Mary Orton, The Mary Orton Company
Bill Persons, AGFD
Ken Rice, USBR/Glen Canyon Dam
Tom Ryan, USBR

Introduction: Michael Gabaldon welcomed the members, alternates, and general public. Attendance sheets were distributed and a quorum established.

Today's revised agenda:

1. Basin Hydrology
2. LTEP/05 planning
3. Tribal Consultation Plan (15)
4. Approve priorities for 06 budget/workplan
5. SA operating protocol (15)
6. TCD Update
7. AHG on Role & Function
8. Plans for the next meeting

Public Outreach AHG Expansion – Pam asked if there were any other AMWG members who wanted to be on the POAHG. Christopher Harris and Mike Liszewski volunteered. Pam advised if there is anyone who wants to be involved, they should contact her.

Basin Hydrology – Tom Ryan said the big concern in the basin continues to be the drought. They are completing the fifth year and about to enter the sixth year. He presented a PowerPoint presentation (**Attachment 16a**). Comments on the individual slides were recorded (**Attachment 16b**).

In closing, Tom said the system is working remarkably well. It's been a nasty 5-year period and yet they still have quite a bit of storage and they're still half full. The message from the Dept. is the drought is serious but we're not yet in a crisis. He said people are starting to make contingency plans and discussions are taking place. The Dept. of the Interior is working with the basin states to analyze options and those discussions are broadening in terms of lots more groups getting involved in terms of working with Reclamation to share information, and so forth.

Long Term Experimental Flow – Dennis Kubly began by restating the charge from the AMWG at the March 2004 meeting: "To develop a long-term experimental program that responds to the AMP Strategic Plan and incorporates existing legal requirements to be completed and brought to the AMWG by January 2005. Science Advisors, GCMRC, and TWG will bring a draft of the program to the AMWG at their fall 2004 meeting and the AMWG will decide at that meeting whether additional recommendations to the Secretary for flows in Water Year 2005 are necessary. AMWG requests that compliance done on the January 2005 long-term experimental flow program be targeted for completion and the program implemented by July 2005." He said that at the time the motion was made, the August meeting was the fall meeting but now an October meeting has been scheduled and he suspects that what was intended at the fall meeting will more likely occur later on at the October meeting. He distributed copies of the LTEP outline (**Attachment 17a**) and then gave a PowerPoint presentation (**Attachment 17b**).

Sam Spiller questioned that if the drought continues, should the focus be on a contingency plan versus a long term experimental plan. Clayton said that WAPA has been doing some analysis relative to Reclamation's forecasts of water releases at GCD and 78% of hydrological conditions will bring about 8.23 maf releases. There is a 78% probability that they will have 8.23 releases. Water may have to be moved around if the goal is to move water around unless the upper basin and lower states and the Secretary of the Interior agree to release less than 78%. He advised keeping the probability in context.

Randy Peterson asked if the science advisors had reviewed the report. Dennis said that it is part of a future task but they haven't had a meeting to discuss when that will occur. Randy said he would support an extension on the report and that there are some things that need to be accomplished and incorporated into the design. He also felt it would be important to have a contingency plan. Dennis said the LTEP AHG would commit to bringing an updated progress report to the October meeting.

Dennis said it will take some time to separate the knowns from the unknowns and it will require some work by GCMRC. Bruce said he thinks they already know what the knowns and unknowns are and by October 1, he wants the specifics identified.

Randy Peterson said that part of the agenda is the 05 planning and asked if the LTEP AHG had talked about what to do in light of that. Dennis said Carl Walters and a group of fish biologists and geomorphologists were present at the last TWG meeting and they came up with some recommendations. He said there have been other suggestions put forward but the only recommendation he has right now is that the group doesn't deviate too far from what they're already doing if it pushes them into a different compliance arena.

Motion: Approve the extension for the production of the Long Term Experimental Plan by TWG and GCMRC, with a draft plan to be delivered to AMWG by Summer 2005, and a final plan by January 2006, with a detailed report to be delivered in October 2004 on timeline and responsible parties for plan development.

Passed by consensus.

05 Planning for Flows

Bruce said he thought that GCMRC had more expectations for 05 and asked Jeff to address their concerns. Jeff said they have an approved 05 budget and they're looking forward to implementing that unless they hear otherwise from the AMWG. He said that GCMRC would like further clarification on any other changes that might occur because they would like to retain the sediment experiment.

Dennis said he could provide one example of an assumption. Mechanical removal right now is directed at salmonids and is pretty well worked out but the water is warming. There are other species such as channel catfish for which they have no idea how to move into suppression. He said some people are advocating they look at other species and go into a research and development phase probably to be added to it. There is not a budget component for that right now. Dennis said that was just one of the discussions they had wanted to occur.

Bruce said he thought the plan was that they did trout suppression for two years and they've accomplished the second year of that and that they lay off the trout suppression for two more years. In our decision, I think is have we had sufficient information, success, over two years and we would like to extend that to a third year and that's good input for them and the dam but I think we have a plan and the plan is not to do trout suppression in the third year because we set two years on and two years off so we do a plan.

Clayton – I suggest we not talk about what we think the plan was but rather talk about what may be useful for WY 05 because you know that a 16-year plan that was put together by GCMRC was not approved and only the two years were approved and NEPA compliance was done for 2 years. The only thing that is actually planned is the first year of a sediment experiment if there is a trigger and there is money set aside for mechanical removal.

Jeff Lovich said a couple of options would be to continue with the next block of 16-year experiment, mechanical removal and extending the blocks for detecting a signal. He said those proposals were made to the LTEP AHG but because of differences, it put them on contrary paths. He said a decision is needed from the AMWG today.

Motion: That we replicate 04 with mechanical removal of trout in FY05, with consultation, a supplemental EA, and public outreach by the POAHG.

Passed by consensus.

Ted Melis said they could replicate the treatments in 05. They have some preliminary results from Josh Korman which suggest that the operation has an impact on salmonids. One other option is having the BHBF in a month like November or December so they don't have to forego power production, which is in line with the Rubin, et al. recommendation. An interim measure for 2005 which is a replication of what went on in 2004. We might want to be starting to see some evidence of HBC recruitment that Carl said and not to impose too many treatments. We may be able to see any changes in 2006. We're looking for a signal. There are some other options we discussed with the LTEG AHG, they didn't seem worth pursuing because of compliance and economic concerns.

**Motion: That we replicate 04 with fluctuating flows (from 5,000 to 20,000 cfs) that continue adaptively (as needed for non-native control) through April.
Passed by consensus.**

Certain items were numbered on a flipchart paper, and then referred to in subsequent motions. The exact language from the flipchart is:

Interim 05 Recommendations

Replicate 04

1. mechanical removal
consultation/supplemental/POAHG
2. fluctuating flows – 5-20
adaptively through April
3. BHBF in Nov – Dec
with a sufficient trigger
9. outreach component

Comments:

- Doing a fall BHBF would be the better move. Anything that can be done to lessen the impact to the basin fund would be good. Given the drought conditions, it may be better to go to existing powerplant conditions and provide a bridge so as to not impact the basin fund. He added that they may be putting the AMP in jeopardy if they ask for money from Congress and then let money out of the fund when money could be generated by the power revenues. (Seaholm)
- Nevada is facing some pretty tight cutbacks. They're looking at some conservation methods and don't see doing a BHBF because it is a waste of water. Nevada is very concerned that this is setting an unhealthy precedent in light of the drought. The basin fund has only about two years of funding. Any water bypassed would be imprudent. He stated that the AMP needs to get serious about saving money. He said that Nevada is not going to support a BHBF. (Lehr)
- There are two years of sediment experimentation. The first year was designed to comply with the Law of the River with a BHBF in January and then drop to a velocity that wouldn't move sediment down the stream. That wasn't good economically. We have thought the AMWG has been helpful with this that power is of concern and the basin fund. I support Ted's proposal. I want to point out that in the list, there is a BHBF in November and why that is in compliance with the Law of the River. It was preferable to have a sediment input following a BHBF. That was a better arrangement. 1) BHBF in November is supported by WAPA provided it is an experiment. If it improves the ecology and saves sediment, the management would be sent to the Secretary and the turbines would be retrofitted, and 2) the issues that

Nevada has raised need to be addressed. We are supportive of their position. If the DOI performs this experiment, then it needs to make some effort to address Nevada's concerns. (Palmer)

- What will happen to the warm water species when the water is warmed? If we're going to do this interim recommendation which I support and continue to see warming, we need to look at species. We need to bring in or move around in 05 budget the R&D part and what is happening with the warm water species. (Cross)
- Consultation with the Hualapai Tribe is something people need to be on top of. Whatever actions we take, our chairman is interested in these topics. As far as planning for GCMRC, the Hualapai Tribe have study sites that they would like to participate in (transects, etc.). When the experimental flows are being implemented, we want to know what impacts there will be to those sacred sites. Have GCMRC stabilize the area before doing the flows. (Jackson)
- We would like to have someone do compliance presentation to the tribal elders. (Yeatts)

MOTION: That there be no BHBF in FY05.

Voting results: Yes = 13 No = 6 Abstaining = 1

Total of 19 voting, 2/3 needed to pass a motion = 13

Motion passed.

Randy Peterson said that if the Secretary decides to conduct a BHBF test in 2005, the AMP would recommend she follow 1, 2, 3, & 9 and conduct such test in September.

Clayton said that Randy is referring to x post analysis so that would be different in 2004 and 2005 but the bypassing water costs money. He's not sure what the amount would be but doing non-native fish suppression flows are a cost savings over the ROD and running steady flows in the fall is a cost over the ROD.

Randy offered new motion language:

Motion: That the Motion: That the AMWG recommend to the Secretary 1, 2, 3, and 9: that we replicate 04 with mechanical removal of trout in FY05, with consultation, a supplemental EA, and public outreach by the POAHG; that we replicate 04 with fluctuating flows (from 5000 to 20,000 cfs) that continue adaptively (as needed for non-native control) through April; that with a sufficient sediment trigger, there be a BHBF in November-December 2004; and that there be a public outreach component.

Nikolai said the motion being proposed is in contradiction to what was just passed. He said a BHBF needs to be done and that if they don't advantage of a monsoon event, they're doing an injustice to the system. He said Grand Canyon Trust would send another minority report.

MOTION WITHDRAWN.

MOTION: The Secretary has before her a FONSI that culminates in a January 2005 BHBF. If there is a sediment trigger, and the Secretary decides to have a BHBF in WY05, AMWG recommends 3: that with a sufficient sediment trigger, there be a BHBF in November-December; as a package along with the AMWG consensus recommendations of 1, 2, and 9: that we replicate 04 with mechanical removal of trout in FY05, with consultation, a supplemental EA, and public outreach by the POAHG; that we replicate 04 with fluctuating flows (from 5,000 to 20,000 cfs) that continue adaptively (as needed for non-native control) through April; and that there be a public outreach component.

Voting results: Yes = 19 No = 0 Abstaining = 1

Total of 10 voting, 2/3 needed to pass motion = 13

Motion passed.

Bruce admonished that there needs to be a plan or they won't be able to get the permits. If GCMRC can't bring a plan, and can't change the dollars, then they need to line out what they're going to do.

**MOTION: That GCMRC and TWG make a recommendation to AMWG in October 2004 on warm water species studies, including a plan with dates starting in January 2005.
Passed by consensus.**

**MOTION: That TWG and GCMRC develop a draft biennial FY06-07 budget and workplan, consistent with the chub, flows, TCD, sediment, and cultural priorities (as established at the priority-setting workshop) and other appropriate inputs, for the January 2005 AMWG meeting, for review, feedback, and possible action.
Motion passed by consensus.**

Tribal Consultation Plan. Loretta Jackson distributed copies of the Draft Tribal Consultation Plan (**Attachment 18**) and said that this plan will be included in the AMP Strategic Plan. She said the plan needs to be reviewed by the Strategic Plan Ad Hoc Group along with the tribes and federal agencies. She would like to see this document incorporated into the AMP Strategic Plan. She said there are also some new parties to Programmatic Agreement and they would also need to review the plan.

The following steps need to occur:

1. The Federal agencies will meet and discuss the plan. They will provide their comments to Loretta Jackson and Dean Saugee (attorney for the Hualapai Tribe).
2. The plan will be revised and forwarded to the entire AMWG for comments.
3. The tribes will meet and hopefully agree on the document.
4. The tribal council will probably pass a resolution on the plan's acceptance.
5. The plan is incorporated into the AMP Strategic Plan.

ACTION ITEM: Loretta will send the current draft of the Tribal Consultation Plan and Addendums A&B to Linda who will distribute to the AMWG. (Posted to the AMP web site:
http://www.usbr.gov/uc/envprog/amp/amwg/mtgs/04aug09/Attach_18.pdf)

ACTION ITEM: Comments on the Draft of the Tribal Consultation Plan are to be sent to Dean Saugee, dsuagee@hswdwc.com by August 26, 2004.

**Motion: Recommend to the Secretary that, upon passage of the DOI Appropriations Act, the Secretary retain and transfer \$380,000 to Reclamation, who will include an additional \$95,000 for immediate distribution to the Tribes to fund Tribal Activities associated with the AMP. This transfer will reflect a contribution of \$95,000 from each DOI agency. BIA, NPS, USGS, FWS, and Reclamation, based on the Secretary's commitment.
Passed by consensus.**

SA Operating Protocols – Dave Garrett said a memo (**Attachment 19a**) was sent to the AMWG regarding a proposal the science advisors want to make to their operating protocol. The science advisors aren't proposing any changes to the budget. The change just indicates how the science advisors receive their charge. He proceeded with a PPT presentation (**Attachment 19b**).

**MOTION: Adopt the amendment to the Science Advisors' Operating Protocol as presented.
Passed by consensus.**

Scoping Report for the GCD TCD. Nancy Coulam distributed copies of the Scoping Report for the GCD TCD EA (**Attachment 20a**) and gave a PowerPoint presentation (**Attachment 20b**). She said Reclamation is going forward with a preparation of an EA. They have formed the ID team and have given the modelers the go ahead to do some work. Dennis Kubly said that Reclamation is going to modify two units and that if they add additional units, they will seek the authority and funding for the TCD. Randy Peterson added that this is the final step in Reclamation's feasibility analysis and the outcome of the testing will determine what additional tests will be done.

GCD TCD Update. Dennis Kubly gave a PowerPoint presentation on the TCD (**Attachment 20c**).

Upcoming agenda items:

- appropriations/Basin Fund
- BHBF
- Procurement from Bob Snow
- Tribal consultation and programmatic agreements -> better understanding for Bruce
- Updated version of the HBC AHG → just the report, no presentation
- GCD Maintenance Schedule
- SA, GCMRC, PA, and TWG updates
- Effects of MLFF under the existing ROD ? When to start addressing?
- POAHG update

ADJOURNED: 12:50 p.m.

A minority Report (**Attachment 21**) was filed on August 18, 2004, by the some members (Darryl Beckmann, Jeffrey Cross, Pamela Hyde, Andre Potochnik, Nikolai Ramsey, Mike Yeatts) who dissented on the motion that there be no BHBF in FY05.

Respectfully submitted,

Linda Whetton
U.S. Bureau of Reclamation
Upper Colorado Regional Office
Salt Lake City UT

General Key to Adaptive Management Program Acronyms

ADWR – Arizona Dept. of Water Resources
AF – Acre Feet
AGFD – Arizona Game and Fish Department
AGU – American Geophysical Union
AMP – Adaptive Management Program
AMWG – Adaptive Management Work Group
AOP – Annual Operating Plan
BA – Biological Assessment
BAHG – Budget Ad Hoc Group
BE – Biological Evaluation
BHBF – Beach/Habitat-Building Flow
BHMF – Beach/Habitat Maintenance Flow
BHTF – Beach/Habitat Test Flow
BIA – Bureau of Indian Affairs
BO – Biological Opinion
BOR – Bureau of Reclamation
CAPA – Central Arizona Project Assn.
cfs – cubic feet per second
CRBC – Colorado River Board of California
CMAHG – Core Monitoring Ad Hoc Group
CRCN – Colorado River Commission of Nevada
CREDA – Colorado River Energy Distributors Assn.
CRSP – Colorado River Storage Project
CWCB – Colorado Water Conservation Board
DBMS – Data Base Management System
DOI – Department of the Interior
EA – Environmental Assessment
EIS – Environmental Impact Statement
ESA – Endangered Species Act
FACA – Federal Advisory Committee Act
FEIS – Final Environmental Impact Statement
FRN – Federal Register Notice
FWS – United States Fish & Wildlife Service
FY – Fiscal Year (October 1 – September 30)
GCD – Glen Canyon Dam
GCMRC – Grand Canyon Monitoring & Research Ctr.
GCNP – Grand Canyon National Park
GCNRA – Glen Canyon National Recreation Area
GCPA – Grand Canyon Protection Act
GUI – Graphical User Interface
HBC – Humpback Chub (endangered native fish)
HMF – Habitat Maintenance Flow
HPP – Historic Preservation Plan
IEDA- Irrigation & Electrical Districts Assoc. of Arizona
IN – Information Need
IT – Information Technology
KAS – Kanab ambersnail (endangered native snail)
LCR – Little Colorado River
LRRMCP – Lower Colorado River Multi-Species Conservation Program
LTEP – Long Term Experimental Plan
MAF – Million Acre Feet
MA – Management Action
MO – Management Objective
NAAO – Native American Affairs Office
NAU – Northern Arizona University (Flagstaff, AZ)
NEPA – National Environmental Policy Act
NGS – National Geodetic Survey
NHPA – National Historic Preservation Act
NPS - National Park Service
NRC - National Research Council
NWS - National Weather Service
O&M - Operations & Maintenance (USBR funding)
PA - Programmatic Agreement
PEP - Protocol Evaluation Panel
Powerplant Capacity - 31,000 cfs
Reclamation - United States Bureau of Reclamation
RBT – Rainbow Trout
RFP - Request For Proposals
RPA - Reasonable and Prudent Alternative
SA - Science Advisors
Secretary - Secretary of the Interior
SPAHG – Strategic Plan Ad Hoc Group
SWCA - Steven W. Carothers Associates
TCD - Temperature Control Device
TCP - Traditional Cultural Property
TES - Threatened and Endangered Species
TWG - Technical Work Group
UCR - Upper Colorado Region (of the USBR)
UCRC - Upper Colorado River Commission
UDWR - Utah Division of Water Resources
USBR - United States Bureau of Reclamation
USFWS - United States Fish & Wildlife Service
USGS - United States Geological Survey
WAPA - Western Area Power Administration
WY – Water Year (a calendar year)