

GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM
TECHNICAL WORK GROUP MEETING
OCTOBER 13-14, 2021

DAY 1 WEBINAR

<https://rec.webex.com/rec/j.php?MTID=m742796aa8930f23dd5779a02e208068b>

Call in: (415) 527-5035 | Participant Passcode: 2761 566 7048

Meeting Number: 2761 566 7048 | Meeting Password: TWG13

FINAL AGENDA

STARTS AT 8:30 a.m. Pacific Daylight Time (PDT)

START TIME (Duration)	Wednesday, October 13, 2021 (Day 1) Topic, Presenter, and Purpose
8:30 Pacific Time (:30)	<p>Welcome and Administrative: Seth Shanahan, Technical Work Group (TWG) Chair</p> <ul style="list-style-type: none"> ▪ Introductions and Determination of Quorum (16 members) ▪ Adoption of Prior Meeting Minutes ▪ Next Meeting Date(s): January 11-13, 2022 ▪ Ad Hoc Group Membership and Updates ▪ Review Action Items, Motions, and Votes Form ▪ Update on Program Funding ▪ Science Advisors Program Status ▪ Update on Activities Impacted Due to COVID-19 Restrictions ▪ Update on Monitoring and Research Trips to Occur From Today Until Next Meeting
9:00 (:60)	<p>Update on Hydrology, Glen Canyon Dam Operations, and Water Quality Conditions in Lake Powell and Below Glen Canyon Dam: Heather Patno and Jeremiah Drewel, Bureau of Reclamation (Reclamation)</p> <ul style="list-style-type: none"> ▪ Presentation (45 minutes) ▪ Q&A and discussion (15 minutes)
10:00 (:30)	<p>Discuss Dissolved Oxygen: Clarence Fullard and Mike Horn, Reclamation</p> <ul style="list-style-type: none"> ▪ Presentation (5 minutes) ▪ Q&A and discussion (25 minutes)
10:30 (:15)	BREAK
10:45 (:30)	<p>Colorado River System 5-year Projected Future Conditions and Other Information: Alan Butler, Reclamation</p> <ul style="list-style-type: none"> ▪ Presentation (20 minutes) ▪ Q&A and discussion (10 minutes)
11:15 (:15)	<p>Long-Term Hydrologic Projections for the Colorado River Basin and Methods for Considering Uncertainty: Jim Prairie, Reclamation</p> <ul style="list-style-type: none"> ▪ Presentation (10 minutes) ▪ Q&A and discussion (5 minutes)
11:30 (:60)	LUNCH

START TIME (Duration)	Wednesday, October 13, 2021 (Day 1) Topic, Presenter, and Purpose
12:30 (:30)	<p>Current Levels of Threats from Non-Native Aquatic Species in Glen Canyon National Recreation Area and Grand Canyon National Park – An Update to Appendix F from the Expanded Non-Native Aquatic Species Management Plan Environmental Assessment: Brian Healy, National Park Service (NPS)</p> <ul style="list-style-type: none"> ▪ Presentation (15 minutes) ▪ Q&A and discussion (15 minutes)
1:00 (:30)	<p>Existing and Planned Monitoring of Non-Native Aquatic Species in Lake Powell and Below Glen Canyon Dam: Brian Healy, NPS; Ken Hyde, NPS; Clarence Fullard, Reclamation; Jan Boyer, AZGFD; GCMRC, et al.</p> <ul style="list-style-type: none"> ▪ Presentation (15 minutes) ▪ Q&A and discussion (15 minutes)
1:30 (:30)	<p>Addressing Detections of Non-Native Aquatic Species Through Preventative and Reactive Actions: Brian Healy, NPS; Ken Hyde, NPS; Jan Boyer, AZGFD; GCMRC; et al.</p> <ul style="list-style-type: none"> ▪ Discussion (30 minutes)
2:00 (:15)	BREAK
2:15 (:60)	<p>Monitoring Metrics: Helen Fairley, Grand Canyon Monitoring and Research Center (GCMRC)</p> <ul style="list-style-type: none"> ▪ Presentation (30 minutes) ▪ Q&A and discussion (30 minutes)
3:15 (:60)	<p>Projected Climate and Geomorphic Changes in the Little Colorado River Watershed and Potential Links to Humpback Chub Habitat: Dave Dean, Joel Unema, and Charles Yackulic, GCMRC</p> <ul style="list-style-type: none"> ▪ Presentation (30 minutes) ▪ Q&A and discussion (30 minutes)
4:15 (:05)	Public Comment
4:20	ADJOURN

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DAY 2 WEBINAR

<https://rec.webex.com/rec/j.php?MTID=m50627cd3cb931e5b2890e36e16b62307>

Call in: (415) 527-5035 | Participant Passcode: 2764 404 3653

Meeting Number: 2764 404 3653 | Meeting Password: TWG14

DRAFT AGENDA

STARTS AT 8:30 a.m. Pacific Daylight Time (PDT)

START TIME (Duration)	Thursday, October 14, 2021 (Day 2) Topic, Presenter, and Purpose
8:30 Pacific Time (:30)	<p>Welcome and Administrative: Seth Shanahan, TWG Chair</p> <ul style="list-style-type: none"> ▪ Introductions and Determination of Quorum (16 members) ▪ Unresolved Issues from Yesterday's Meeting
9:00 (:30)	<p>Discussion About Possible Experimental and Management Actions That May be Implemented in the Next 12 Months and Any Budgeting Issues: Clarence Fullard, Bureau of Reclamation (Reclamation); and Mike Moran, Grand Canyon Monitoring and Research Center (GCMRC)</p> <ul style="list-style-type: none"> ▪ Presentation (10 minutes) ▪ Q&A and discussion (20 minutes)
9:30 (:30)	<p>Potential Fall High Flow Experiment (HFE) \leq 96 Hours or \leq 192 Hours; Status of Resources and Experimental Plan: Lee Traynham, Reclamation; and Mike Moran, GCMRC</p> <ul style="list-style-type: none"> ▪ Presentation (15 minutes) ▪ Q&A and discussion (15 minutes)
10:00 (:15)	BREAK
10:15 (:45)	<p>Discuss Temperature Control, Including a Re-Review of the Cooling Capacity of the Bypass Flows and Obtaining TWG Input on Refining the Problem Statement: Nick Williams and Clarence Fullard, Reclamation</p> <ul style="list-style-type: none"> ▪ Presentation (10 minutes) ▪ Q&A and discussion (35 minutes)
11:00 (:45)	<p>Morphodynamic Sandbar Model: Erich Mueller, GCMRC</p> <ul style="list-style-type: none"> ▪ Presentation (25 minutes) ▪ Q&A and discussion (20 minutes)
11:45 (:60)	LUNCH
12:45 (:45)	<p>Additional Information Regarding Purchase Power Cost Estimates, Including Assumptions and Uncertainty, Such That Effects To Hydropower Are Minimized If Bug Flows Are Implemented In The Future: Jerry Wilhite and Clayton Palmer, Western Area Power Administration (WAPA)</p> <ul style="list-style-type: none"> ▪ Presentation (20 minutes) ▪ Q&A and discussion (25 minutes)

START TIME (Duration)	Thursday, October 14, 2021 (Day 2) Topic, Presenter, and Purpose
1:30 (:45)	Informational Updates <ul style="list-style-type: none"> ▪ Spring Disturbance Flow: Ted Kennedy, GCMRC ▪ Bug Flow Review: Ted Kennedy, GCMRC ▪ Rainbow and Brown Trout Status in Lees Ferry: Jan Boyer, AZGFD ▪ Trout Recruitment, Growth, and Population Dynamics: GCMRC ▪ Green Sunfish Status and Incentivized Harvest Program Implementation: Ken Hyde, NPS ▪ Colorado Pikeminnow Reintroduction Feasibility Report: Kim Dibble, GCMRC
2:15 (:15)	BREAK
2:30 (:30)	Update on 5-Year Review of Management Triggers for Humpback Chub: Kerri Pedersen, Reclamation; and Kirk Young, U.S. Fish and Wildlife Service <ul style="list-style-type: none"> ▪ Presentation (10 minutes) ▪ Q&A and discussion (20 minutes)
3:00 (:25)	Peer Review Comments on the GCMRC Fiscal Year 2020 Annual Project Report for the Glen Canyon Dam Adaptive Management Program: Dawn Johnson, Senior Biologist, Wood PLC <ul style="list-style-type: none"> ▪ Presentation (10 minutes) ▪ Q&A and discussion (15 minutes)
3:25 (:30)	2021 Annual Reporting Meeting - Planning: TWG Members <ul style="list-style-type: none"> ▪ Discussion (30 minutes)
3:55 (:30)	Discussion of Emerging Issues, Updates on Items of Interest That Are in Consideration for Implementation Before Next TWG Meeting, and Request for Agenda Items for Next Meeting: TWG Members <ul style="list-style-type: none"> ▪ Discussion (30 minutes)
4:25 (:05)	Public Comment
4:30	ADJOURN