## GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM TECHNICAL WORK GROUP MEETING JUNE 15-16, 2022

## DAY 1 WEBINAR

https://rec.webex.com/rec/j.php?MTID=m667401ee0564e8ada9257d8e667e63fe Call in (415) 527-5035 | Participant Passcode: 2764 170 4051 Meeting Number: 2764 170 4051 | Meeting Password: Jun15

## **AGENDA**

STARTS AT 8:30 a.m. Pacific Daylight Time (PDT)/ 8:30 a.m. Arizona Time / 9:30 am Mountain Daylight Time (MDT)

START TIME (Duration)	Wednesday, June 15, 2022 (Day 1) Topic, Presenter, and Purpose
9:30 MDT (:60)	<ul> <li>Welcome and Administrative: Seth Shanahan, Technical Work Group (TWG) Chair</li> <li>Introductions and Determination of Quorum (16 members)</li> <li>Adoption of Prior Meeting Minutes</li> <li>Next Meeting Date(s): October 12-13, 2022</li> <li>Ad Hoc Group Membership and Updates</li> <li>Review Action Items, Motions, and Votes Form</li> <li>Update on Program Funding</li> <li>Possible Experimental and Management Actions in the Next 12 Months</li> <li>Stakeholder River Trip July 13-22, 2022</li> <li>Update on Monitoring and Research Trips to Occur From Today Until Next Meeting</li> </ul>
10:30 MDT (:15)	TWG Chairperson and Vice-Chairperson Election: Clarence Fullard, Bureau of Reclamation  (Reclamation)  Q&A, discussion, and action (15 minutes)  Proposed motion language: The TWG appoints to the position of Chairperson and to the position of Vice-Chairperson of the Glen Canyon Dam Technical Work Group for Fiscal Year 2023.
10:45 MDT (:30)	Report Out and Recommendation from the Budget Ad Hoc Group for the Fiscal Year 2023 Budget and Work Plan: Craig Ellsworth, Western Area Power Administration (WAPA); Clarence Fullard, Reclamation; and Mike Moran, Grand Canyon Monitoring and Research Center (GCMRC)  Presentation, Q&A, and discussion (30 minutes)
11:15 MDT (:15)	BREAK

START TIME (Duration)	Wednesday, June 15, 2022 (Day 1) Topic, Presenter, and Purpose
11:30 MDT (:60)	Development of Budget Recommendation to the Adaptive Management Work Group (AMWG):  TWG Members  Discussion and action (60 minutes)  Proposed motion language: The Technical Work Group recommends that the Adaptive  Management Work Group recommend for approval to the Secretary of Interior, the Fiscal Year 2023
	budget as shown on the budget worksheets presented to the Technical Work Group on June 15, 2022; furthermore, as funds become available, the Technical Work Group recommends those funds are used to fund the work items listed below in priority order:
	Priority 1 – Continue Project Element G.6, Juvenile Chub Monitoring-West Priority 2 – Continue sampling at two sub-reaches for Project Element H.2, Experimental Flow Assessment of Trout Recruitment
	Priority 3 – Begin the Grand Canyon portion of the water quality synthesis requested by the Adaptive Management Work Group at their February 9-10, 2022 meeting Priority 4 – Investigate an aquatic vegetation removal pilot project in Lees Ferry to reduce brown trout habitat
	Priority 5 — Continue two monitoring trips for Project Element C.1, Ground-based Riparian Vegetation Monitoring Priority 6 — Continue Project Element B.5, Streamflow and Sandbar Modeling
12:30 MDT (:60)	LUNCH
1:30 MDT (:45)	Key Elements of the 2022 Drought Response Operations Plan and Reducing Glen Canyon Dam  Releases to 7.0 Million Acre-Feet in Water Year 2022: Rod Smith, DOI  Presentation (30 minutes)  Q&A and discussion (15 minutes)
2:15 MDT (:45)	Update on Hydrology, Glen Canyon Dam Operations, and Water Quality Conditions in Lake Powell and Below Glen Canyon Dam: Heather Patno, Reclamation  Presentation (30 minutes)  Q&A and discussion (15 minutes)
3:00 MDT (:15)	BREAK
3:15 MDT (:30)	Status of Non-Native Fish in Lake Powell: Barrett Friesen, Utah State University  Presentation (15 minutes)  Q&A and discussion (15 minutes)

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START TIME (Duration)	Wednesday, June 15, 2022 (Day 1) Topic, Presenter, and Purpose
3:45 MDT (:30)	Status of Harmful Non-Native Fish Below Glen Canyon Dam, Incentivized Harvest, and Smallmouth Bass Task Force: Brian Healy, National Park Service; and Kirk Young, Fish and Wildlife Service  Presentation (15 minutes) Q&A and discussion (15 minutes)
4:15 MDT (:30)	Secretary's Designee Direction From the May 18, 2022 Adaptive Management Work Group  Meeting: Seth Shanahan, TWG Chairperson  Q&A and discussion (30 minutes)  On May 18, 2022 the Secretary's Designee directed Reclamation and GCMRC to work with the TWG regarding the following:
	<ul> <li>Develop a draft strategic plan to prevent, detect, and respond to cool- and warmwater invasive fish establishment below Glen Canyon Dam. The plan should include proposed monitoring, specific activities to be considered for prevention and response, along with their relative effectiveness, detection thresholds ("triggers") for action, and conditions for discontinuing response activities (e.g. due to success, futility, resource limitations, etc.).</li> <li>Develop 2-4 operational alternatives that could help prevent cool- and warmwater invasive fish establishment, while minimizing potential adverse effects to other resources.         Operational alternatives that are not within the scope of the LTEMP ROD may be proposed, but would require additional NEPA, ESA, and NHPA compliance.     </li> <li>Reclamation, GCMRC and the TWG will report out at the August AMWG meeting on the draft strategic plan and operational alternatives, and the AMWG may recommend further action or study.</li> </ul>
	As a starting point, GCMRC will leverage information and products from existing research and monitoring efforts within the GCDAMP, as well as from the Smallmouth Bass Task Force.  Unspent FY 2022 funds from Reclamation Project C.5, Experimental Management Fund, may be utilized to support GCMRC staff time for this effort.
4:45 MDT (:15)	Monitoring Metrics: Helen Fairley, GCMRC  Presentation (10 minutes)  Q&A and discussion (5 minutes)
5:00 MDT (:05)	Public Comment
5:05 MDT	ADJOURN

# GLEN CANYON DAM ADAPTIVE MANAGEMENT PROGRAM TECHNICAL WORK GROUP MEETING JUNE 15-16, 2022

## DAY 2 WEBINAR

https://rec.webex.com/rec/j.php?MTID=m616c3755397a3e35d67a56e5340674fd

Call in (415) 527-5035 | Participant Passcode: 2763 940 8036 Meeting Number: 2763 940 8036 | Meeting Password: TWG16

### **AGENDA**

STARTS AT 8:30 a.m. Pacific Daylight Time (PDT)/ 8:30 a.m. Arizona Time / 9:30 am Mountain Daylight Time (MDT)

START TIME (Duration)	Thursday, June 16, 2022 (Day 2) Topic, Presenter, and Purpose
9:30 MDT (:30)	Welcome and Administrative: Seth Shanahan, TWG Chair  ■ Introductions and Determination of Quorum (16 members)  ■ Unresolved Issues from Yesterday's Meeting
10:00 MDT (1:30)	Tabletop Exercise Summary of Findings: Michelle Garrison, TWG Vice-Chairperson  ■ Presentation (45 minutes)  ■ Q&A and discussion (45 minutes)
11:30 MDT (:15)	BREAK
11:45 MDT (:30)	Informational Updates About Activities Related to the Long-Term Experimental and Management Plan Programmatic Agreement: Jamescita Peshlakai, Reclamation Presentation (15 minutes) Q&A, and discussion (15 minutes)
12:15 MDT (:30)	<ul> <li>Informational Updates</li> <li>Feasibility Study for Reintroducing Colorado River Pikeminnow: Kirk Young, Fish and Wildlife Service</li> <li>Water Quality and Public Health Items: Ronan King, National Park Service</li> <li>Razorback Sucker Augmentation Activities in Grand Canyon: Brian Healy, NPS</li> <li>Rainbow and Brown Trout Status in Lees Ferry: Ryan Mann, Arizona Game and Fish Department</li> <li>Bug Flows Experiment: Ted Kennedy, GCMRC</li> </ul>
12:45 MDT (:60)	LUNCH
1:45 MDT (:60)	Drought Related Changes in Water Quality Surpass Experimental Flow Effects on Growth of Rainbow Trout in Glen Canyon: Josh Korman, Ecometric; and Bridget Deemer, GCMRC  Presentation (30 minutes)  Q&A and discussion (30 minutes)

START TIME (Duration)	Thursday, June 16, 2022 (Day 2) Topic, Presenter, and Purpose
2:45 MDT (:15)	BREAK
3:00 MDT (:20)	<ul> <li>Trout Management Flows White Paper: Kerri Pedersen, Reclamation</li> <li>Presentation (10 minutes)</li> <li>Q&amp;A and discussion (10 minutes)</li> </ul>
3:20 MDT (:30)	An Update on the Grand Canyon River Guides' Adopt-a-Beach Program: Ben Reeder and Zeke Lauk, Grand Canyon River Guides  Presentation (15 minutes)  Q&A and discussion (15 minutes)
3:50 MDT (:35)	Discussion of Emerging or Other 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  Discussion (35 minutes)
4:25 MDT (:05)	Public Comment
4:30 MDT	ADJOURN