Lake Powell Fish Monitoring Study 2021 - 2024

Presented by Clarence Fullard on behalf of project team.
• Results:
  • Most fish were within the top 14m of the water column.
  • More fish present in forebay June – September.
  • **Entrainment is likely during periods of low reservoir elevations less than ~3,516’**.
Overview of New Study

1) Engineering Review of Options at GCD
   - Top 3 list for physical and non-physical barriers.
   - Use all past R&D reports, Prize Competitions, and technology searches.

2) Lake Powell Forebay Fish Monitoring
   - Monitor fish location, density, and species composition.
   - Considering how to best measure fish entrainment and survival through GCD.
Project Details

• Partners:
  1. Reclamation Technical Service Center:
     • Jeremy Hammen, PhD
     • Michael Horn, PhD
  2. Utah State University:
     • Phaedra Budy, PhD
     • Casey Pennock, PhD
     • Gary Theide;
     • MS student (TBD)

• Scope:
  • Hydroacoustic monitoring:
    • Quarterly sampling
  • Fish netting across various depths:
    • Gill nets
    • Mid-water trawls
    • Larval trawls
    • Light traps
Project Timeline

• November 2021: Pilot trip

• Reporting:
  • Status reports after each trip.
  • Reporting to TWG/AMWG as requested.
  • MS thesis, spring 2024. Peer reviewed publication.