



— BUREAU OF —
RECLAMATION

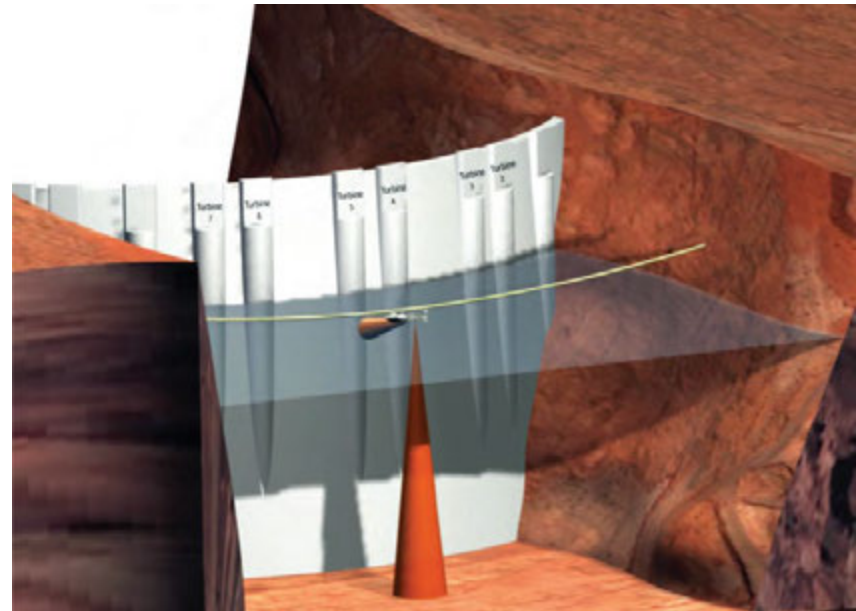
Lake Powell Fish Monitoring Study 2021 - 2024

Presented by Clarence Fullard on behalf of
project team.

Reclamation Technical Service Center 2007-2009 Hydroacoustic Survey

- 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:

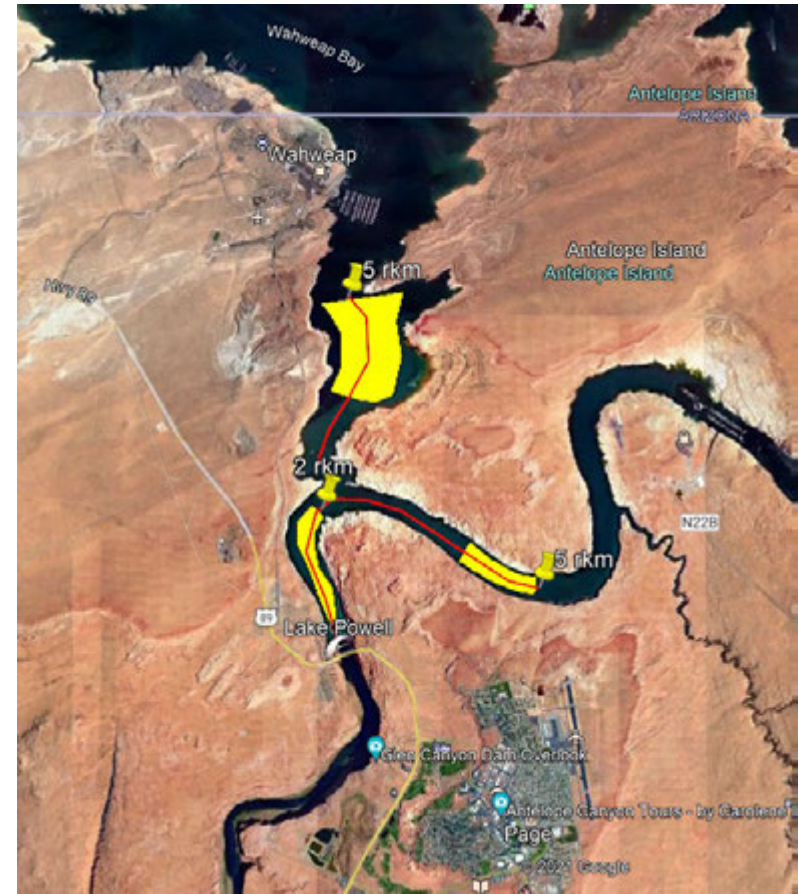
- Jeremy Hammen, PhD
- Michael Horn, PhD

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
- Data collection: January 2022 - EOY 2023.
- Reporting:
 - Status reports after each trip.
 - Reporting to TWG/AMWG as requested.
 - MS thesis, spring 2024. Peer reviewed publication.

