2021 LTEMP
Archaeological Site Section 106 Monitoring
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LTEMP FEIS and ROD:

Acknowledge the affected area varies by resources and extends outside the immediate river corridor

LTEMP Programmatic Agreement Area of Potential Effect is defined as

“the area of direct and indirect effects to the character or use of historic properties on the Colorado River Corridor in the Canyons from Glen Canyon Dam to the western boundary of Grand Canyon National Park including direct or indirect effects that may be caused to historic properties by the Undertaking from rim-to-rim of the Canyons”
What is Monitoring?
Physically observing and documenting current conditions.
Conducted by archaeologists meeting the Secretary of Interior’s professional qualification standards.
Based on established protocols and definitions at the WASO level.
Monitoring schedules are based on the presence or absence of disturbances, the disturbance levels and effect on National Register Integrity. Schedules range from annual to once every 15 years.
Site type examples along the river corridor

- Multi-room structures
- Historic boat
- Large donut-shaped roasting feature
- Images pecked into rock
Examples of erosion at LTEMP sites

- Cutbank exposure and retreat
- Surface erosion
- Wind erosion
- Gullyning
2021 Sites
2021 Documented Disturbances
n=32
2021 Effects on National Register Integrity Grouped by Disturbance Type

- Water Erosion: Destabilization (6), Destruction (1), Displacement (3), Removal of Matrix (4)
- Wind Erosion: None
- Structural Deterioration: None
- Artifact Displacement: None
- Structural Modification: None
- Trailing: None
2021 Summary

79% of sites were in Good condition – with no treatment recommendations.

Water erosion continues to be the most frequently documented disturbance.

One site is so impacted by erosion that National Register eligibility is threatened. Data recovery is planned at this site.
NPS Resource Programs on the river

Colorado River Management Plan
- Archaeological site monitoring & mitigation
- Campsite monitoring & mitigation

Trails river maintenance
Vanishing Treasures
List of Classified Structures
March 2021 4,000 cfs
March 2021 4,000cfs rapids
Questions?