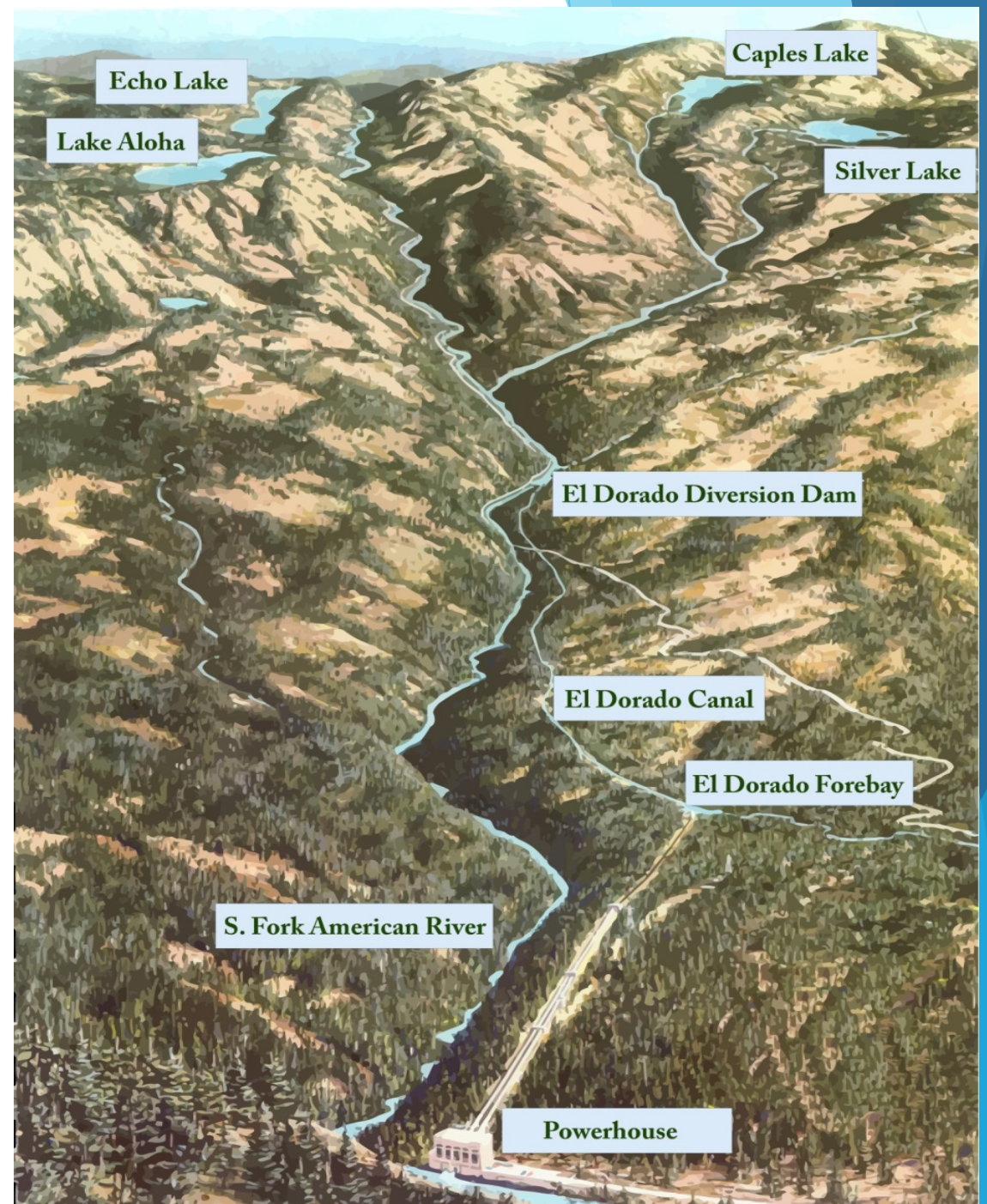
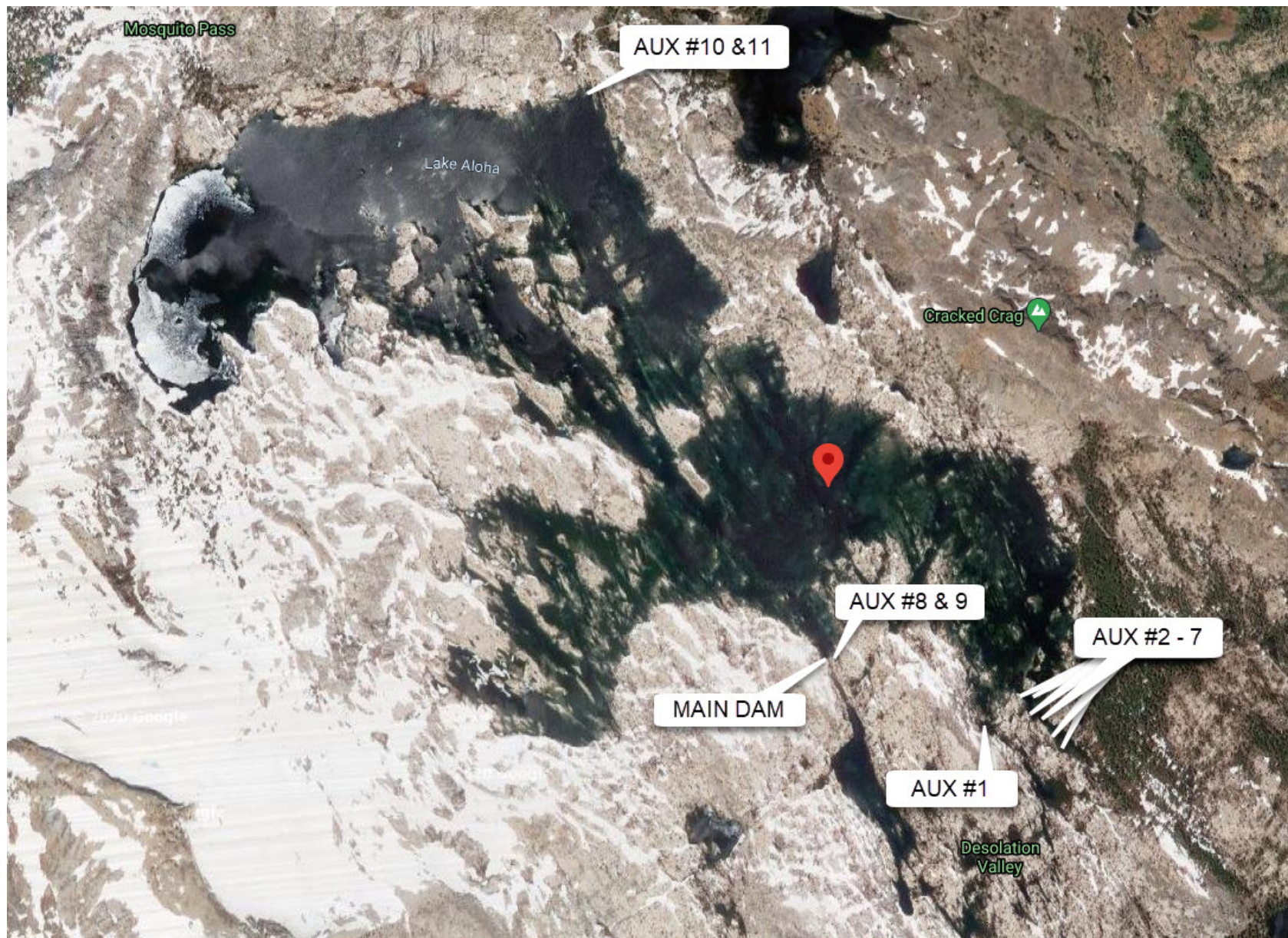


2020 Lake Aloha Dam Repairs

Project 184 Background

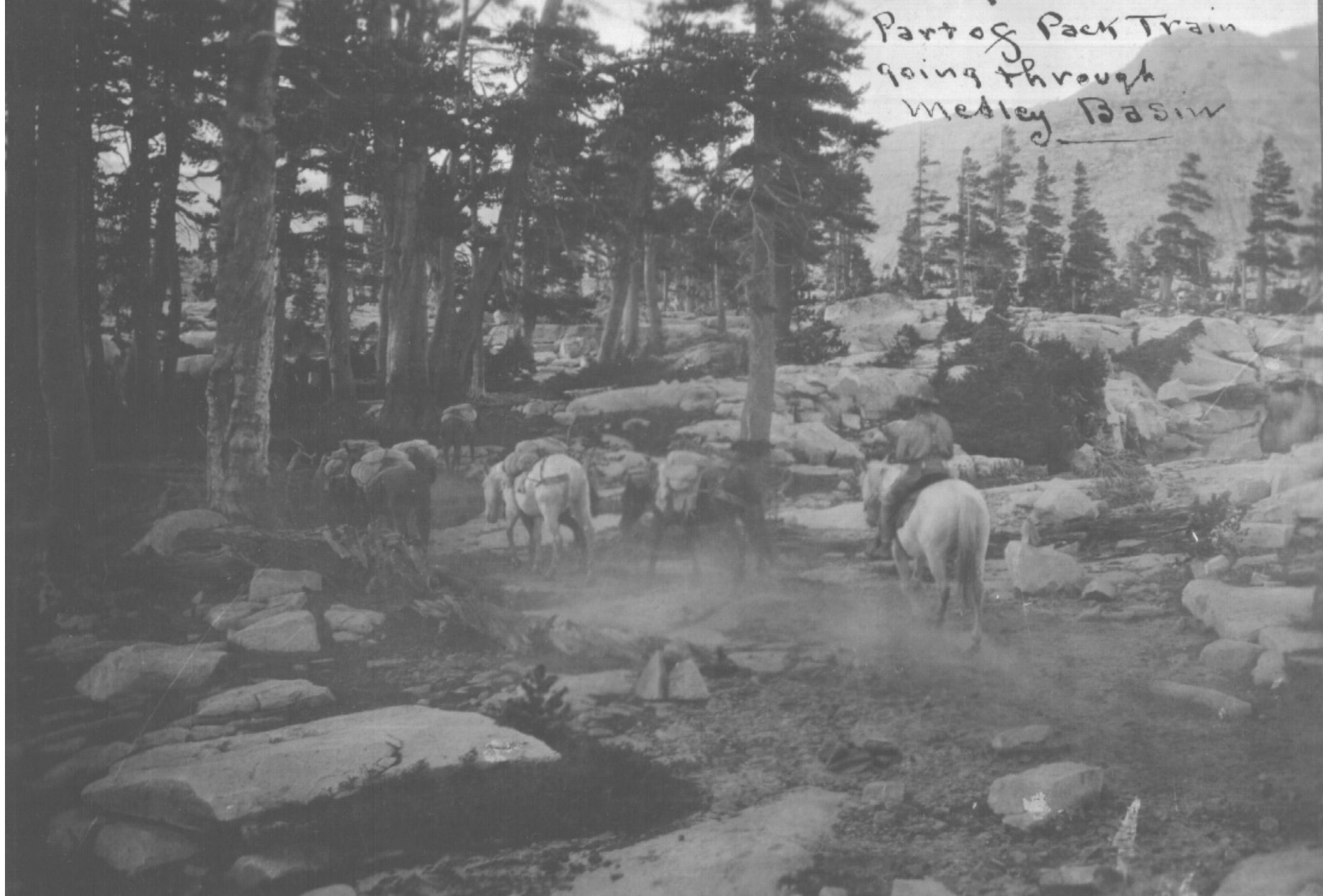
- Hydroelectric division established during transfer of Project 184 from PG&E
 - Includes 15,080 acre-feet of consumptive water rights
 - Four high-Sierra reservoirs—Caples, Silver, Echo, and Aloha
- Lake Aloha includes 12 dams
 - Federal Energy Regulatory Commission (FERC) and State Division of Safety of Dams (DSOD) jurisdiction
- Situated within Desolation Wilderness at elevation 8,209 feet
 - 12.6 miles round trip hiking from Echo Lake





Necessary repairs performed during September 2020
Hydro staff camped out for 5 days to perform these repairs

Part of Pack Train
going through
Medley Basin



10-20-17 medley lakes aux. dams also
Spillway section



10/8/17 Medley Lakes Main Dam
Finishing West End



10-13-17 Medley Main Dam looking upstream



- Installed reinforcement straps on the Main Dam outlet tower
 - Regular ropes training
 - Resealed upstream face of multiple dams
- Repaired eroded areas at base of Dams 6 & 7



Lake Aloha Main Dam and Outlet Tower



- Dam leaks were identified when the lake was full at 5,000 acre-feet
- Repairs made when lake level was below 300 acre-feet
- Outlet tower work necessitated due to separation from dam crest during a prior closure of the outlet gate



Mortar Repairs
to Dams 6 & 7

Installed
reinforcement
straps on
outlet tower

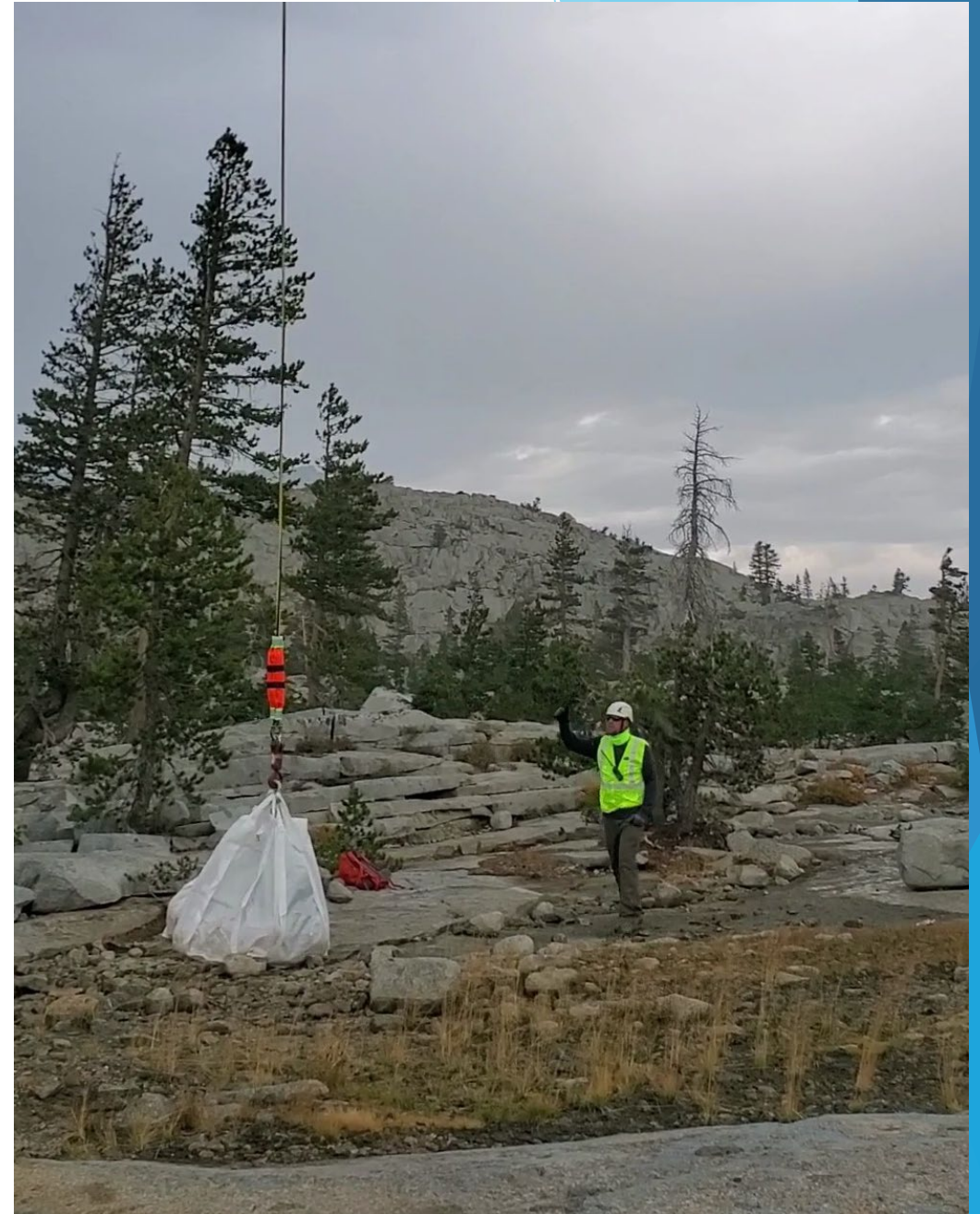


- In addition to the Main Dam, there are 11 Auxiliary dams in various locations.
- Outflow from the Main Dam flows into Pyramid Creek and then the South Fork of the American River.





Staff, materials, and equipment were transported via helicopter due to the remote location



Staff dining area
and equipment
staging area near
the Main Dam



Even the
essentials
are needed



Hydro staff successfully repaired the leaks on the main dam, secured the outlet tower and repaired auxiliary dams 6 & 7.

Congratulations to the dedicated hydro staff that safely performed this work:

Bryan Cooper
Brian Johnston
Steve Laguna
Matt Warden
James Kowalla

Project planning and support by Matt Heape - Hydro O&M Supervisor

Inspection & engineering support by John Kessler, EID's Chief Dam Safety Engineer



Questions?

