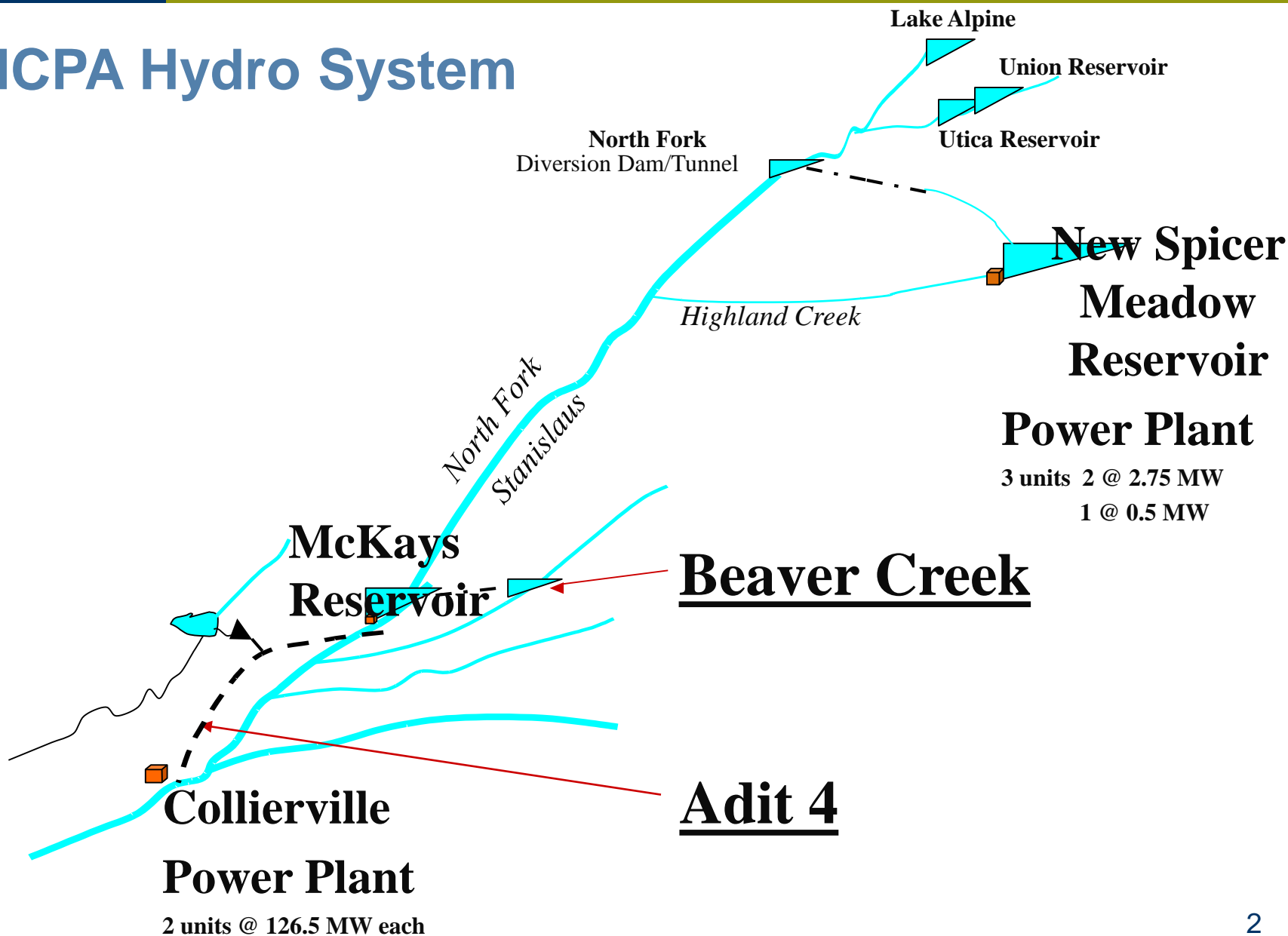


Project Update for Beaver Creek Diversion Dredging and Adit 4 North Fork Stanislaus River Hydroelectric Project



Facilities Committee
September 6, 2017

NCPA Hydro System



Flood Damage

- January-February floods filled the Beaver Creek Facility with 11,400 cubic yards of sediment and debris
- Prevents hydropower and consumptive water diversions to McKays
- Immediate restorative action is required to avert a multi-year delay in Facility operation
- Emergency permitting and construction

Beaver Creek Intake Structure and Reservoir

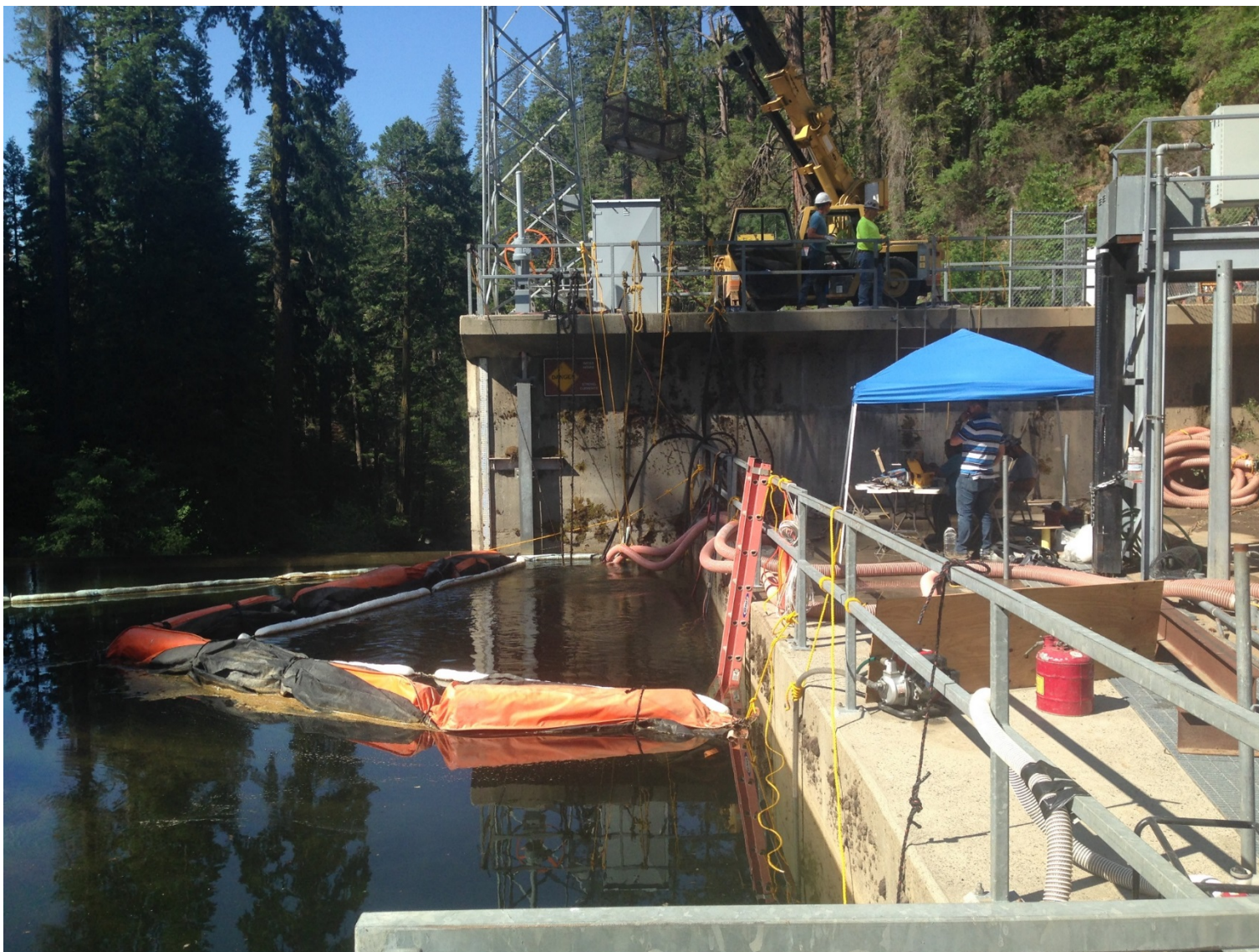


Beaver Creek Intake Structure





Beaver Creek Cleanout



Beaver Creek Cleanout











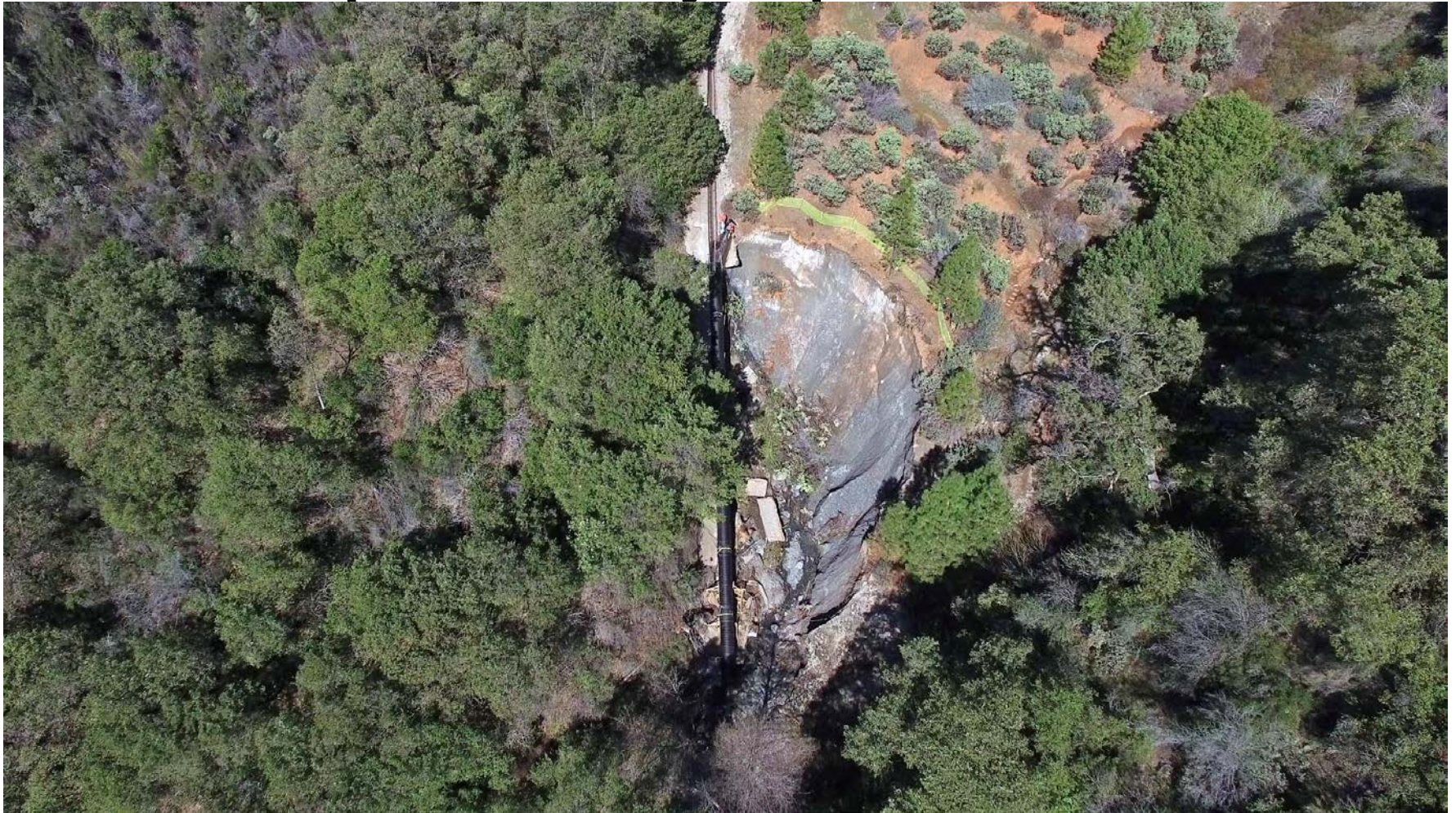




Timelines

- February-April: Complete access road bypass
- March-May: Agency consultations/permitting
- April: Detailed reservoir bathymetry
- May: Dive contract scoping and bidding
- June-July: Suction dredging at Intake
- July: Excavation contract scoping & bidding
- August: Excavation/hauling (8,500 yds. as of 9/1)
- Sept. 1st: ACOE approved additional 4,600 yards
- Sept/Oct: Excavation/hauling

Adit 4 Spoils Facility Repair



















Schedule

- June: Mobilization, water control, demolition
- July: Cut access and construct the keyway
- August: Construct the energy dissipater
- September: Drill horizontal drains and place fill
- October: Shotcrete canal
- November: Handrails, final site stabilization, road repairs and scheduled completion

Schedule

- Contractor's schedule slipped one month
- NCPA notified contractor that first recovery schedule for canal still leaves potential storm water risks
- Staff reviewing second recovery schedule and stormwater contingency plan

Insurance

- Staff met with McLaren's and their engineer 8/14
 - McLaren's engineer identified significant potential coverage exclusions
 - Presented NCPA reasoning for complete coverage
 - Established replacement-in-kind costs
 - Answered their engineer's questions
- McLaren's, engineer, underwriters are reviewing NCPA's counterproposal